

# **Phase II Environmental Site Assessment**

**Chevy / Doby Properties  
350 – 394 N Schuyler Avenue  
Kankakee, Illinois**

USEPA Brownfield Cooperative Agreement No.: BF00E01381-0

March 23, 2017  
Stantec Project No.: 182609844

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**LIST OF ACRONYMS AND ABBREVIATIONS**

|       |  |
|-------|--|
| AST   | Aboveground storage tank                   |
| BTEX  | Benzene, toluene, ethylbenzene and xylenes |
| EPA   | U.S. Environmental Protection Agency       |
| ESA   | Environmental Site Assessment              |
| ESI   | Earth Solutions Incorporated               |
| eV    | electronvolt                               |
| Fbg   | Feet below grade                           |
| Mg/kg | Milligrams per kilogram                    |
| PAH   | Polynuclear aromatic hydrocarbon           |
| PID   | Photoionization detector                   |
| QAPP  | Quality Assurance Project Plan             |
| REC   | Recognized environmental condition         |
| RO    | Remediation Objective                      |
| SAP   | sampling and analysis plan                 |
| TACO  | Tiered Approach Corrective Objective       |
| VOC   | Volatile organic compound                  |

## **1.0 EXECUTIVE SUMMARY**

Stantec Consulting Services Inc. (Stantec) prepared this Phase II Environmental Site Assessment (ESA) report on behalf of the City of Kankakee (herein referred to as the “City”). The report documents field sampling and associated laboratory analyses performed on property located at 350 – 394 N Schuyler Avenue in the City of Kankakee, Illinois (the Site). The scope of work was completed in accordance with the Site Specific Sampling and Analysis Plan (SAP) prepared by Stantec dated December 20, 2016, utilizing protocols detailed in the Quality Assurance Project Plan (QAPP) dated April 8, 2016. The Phase II ESA was performed using funds from an assessment grant for hazardous and petroleum substances awarded to the City by the United States Environmental Protection Agency (U.S. EPA) in 2015. The U. S. Environmental Protection Agency (EPA) approved the brownfield eligibility determination request for hazardous substances for the Site. The site was also approved by the Illinois Environmental Protection Agency (Illinois EPA) for the brownfield eligibility determination request for petroleum substances for the Site. The purpose of the Phase II ESA was to evaluate current soil and groundwater conditions to be used to assist in planning for Site redevelopment.

On February 28 and March 1, 2017, Stantec collected soil samples from ten soil borings. Groundwater was not encountered, therefore, the originally proposed temporary monitoring wells were not installed. Results of the Phase II ESA indicated that volatile organic compounds (VOCs) (including benzene, toluene, ethylbenzene, total xylenes (BTEX)) and polynuclear aromatic hydrocarbons (PAHs) are not present in soil above the most restrictive Tier 1 remediation objectives (ROs) listed in Title 35 of Illinois Administrative Code (IAC), Part 742 – Tiered Approach to Corrective Action Objectives (TACO).

## **2.0 INTRODUCTION**

Stantec prepared this Phase II ESA on behalf of the City following completion of field sampling and associated laboratory analyses performed at the Site. Stantec completed the scope of work in accordance with the site-specific SAP (Stantec, 2016a), utilizing protocols described in the QAPP (Stantec, 2016). The project is being performed using funds from an assessment grant for hazardous substances and petroleum brownfields awarded to the City by the U.S. EPA in 2015. The EPA approved the brownfield eligibility determination request for hazardous substances and the Illinois EPA approved the brownfield eligibility determination request for petroleum substances for the Site.

### **2.1 GENERAL**

The purpose of the Phase II ESA is to evaluate current soil and groundwater conditions to be used to help in planning for Site redevelopment. A Property Location Map is included as Figure 1.

### **2.2 SITE DESCRIPTION/BACKGROUND**

The Site consists of five parcels of land totaling approximately 1.16 acres and is currently developed with one 8,400 square foot single level building. Surrounding properties are a mix of commercial and residential use properties.

### **2.3 ENVIRONMENTAL CONCERNS**

Stantec completed a Phase I ESA at the Site on September 27, 2016 (Stantec, 2016a) that identified the following Recognized Environmental Condition (RECs):

- The Property has a past use as a car dealership and auto repair shop and is assumed to have used and stored a variety of hazardous substances and petroleum products. Evidence of such use (gasoline containers, oil containers, automotive lubricants) was observed on the Property in addition to surface staining on the concrete within the former automotive repair shop area.
- The site adjacent to the west of the Property (355 N. Schuyler) had two petroleum underground storage tanks (USTs) removed in March 1986. No soil or groundwater samples were collected during the removal of the USTs. Given the potential for these releases to affect the soil and/or groundwater beneath the Property; this is considered a REC.
- A site approximately 63 feet northwest of the Property (395 N. Schuyler) had a 2,000-gallon heating oil UST and 500-gallon used oil UST removed in 1995. During the removal, leaking underground storage tank (LUST) incident No. 950436 was assigned to the site. However, the site elected to proceed under the pre-1974 UST regulation and submitted a heating oil UST letter to the Illinois EPA. Given the potential for these releases to affect the soil and/or groundwater beneath the Property; this site is considered a REC. To determine if legacy environmental impacts remain at the Site, Stantec recommended that a Phase II ESA be completed. Common contaminants related with this REC include BTEX and PAHs.

On December 20, 2016, Stantec prepared a site-specific SAP to complete a Phase II ESA at the Site (Stantec, 2016b) that was approved by the U.S. EPA on December 20, 2016.

The Phase II ESA's purpose was to further evaluate the REC identified in the Stantec Phase I ESA (2016a) and confirm the presence or absence of contamination remaining at the Site near the UST. The

results of the additional sampling conducted by Stantec will be supplied to the City to aid in planning for redevelopment activities.

### 3.0 DESCRIPTION OF INVESTIGATION

Field activities completed in accordance with the site-specific SAP and QAPP are discussed in the following subsections.

#### 3.1 SOIL

On February 28 and March 1, 2017, ten proposed soil boreholes were advanced by Job Site Services of Bay City, Michigan (JSS) under the supervision of Stantec personnel. The soil borings were advanced with a track mounted Geoprobe® using direct-push sampling methods. The soil borings were completed adjacent to the existing hydraulic lifts and adjacent to former USTs. The borings were extended to a depth of approximately 10 feet below grade (fbg). Probe drilling rods and soil sampling equipment were clean when brought on Site and were cleaned between each borehole. Hydraulic probe sampling barrels were decontaminated with an Alconox® equivalent wash and water rinse prior to the collection of each soil sample. New disposable plastic "sleeve" liners were used for collection of each soil sample to minimize the potential for cross contamination between soil samples.

Soil samples were collected continuously from the ground surface to the bottom of the boring. Soil samples were visually and physically examined by Stantec field geologists and observations made of the general lithology (percentages of gravel, sand, silt, and clay), visible layering, evidence of non-native fill/anthropogenic materials, indications of chemical or other staining, odors, and other distinctive features. Field observations are described on the soil boring logs provided in Appendix A. The boreholes were immediately abandoned by backfilling with bentonite chips and the surface was patched with asphalt or concrete to match the existing surrounding material. Borehole abandonment details are included in the soil boring log included in Appendix A.

Portions of the soil from approximately every two-foot interval were field screened for the presence of VOCs using a photoionization detector (PID) equipped with a 10.2 electronvolt (eV) lamp and calibrated to a 100 parts per million isobutylene gas calibration standard. The portions of soil core from each one-foot interval was placed into Ziploc® storage bags, sealed, labeled, and stored for a period of approximately one-half hour. The samples were tested by piercing the side of each Ziploc® bag with the tip of the PID probe and then recording the maximum meter reading within an approximate five second interval. PID data are included on the soil boring log presented in Appendix A.

Selection of soil samples for laboratory analysis was based upon depth, presence of fill materials, moisture content, and field screening readings, in accordance with rationale detailed for each boring on Table 1 of the site-specific SAP (Stantec, 2016b). Soil samples selected for analysis were placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to TestAmerica Laboratories, Inc. laboratory in University Park, Illinois (State of Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP Accreditation No. 100201) under a chain of custody for analysis. Soil samples were submitted for the analysis of VOCs (including BTEX) (SW846 Method 8260B) and PAHs (SW846 Method 8270). Field duplicate soil sample SB-9 (1-2) was submitted for analysis for PAHs. A duplicate sample was submitted for VOC analysis, however, due to a field preservation error, the sample was not analyzed. In addition, one "Trip Blank" was submitted to the laboratory for VOC analysis. The laboratory report is presented in Appendix B; analytical data are summarized on Table 1 and Table 2 and discussed in Section 5.3. Quality assurance/quality control (QA/QC) data for soil are discussed in Section 5.6 and summarized on Table 3.

The horizontal locations of the soil borings were field measured by triangulation using landmarks on the Site by Stantec and locations are illustrated on Figure 2.

### **3.2 GROUNDWATER**

Since groundwater was not encountered during the soil investigation, the proposed temporary monitoring well was not installed.

## **4.0 APPLICABLE CLEAN-UP CRITERIA**

Procedures for establishing soil clean-up standards applicable to sites in Illinois with documented soil contamination are specified in Title 35 of the IAC, Part 742 - TACO.

Soil clean-up standards depend in part on current land use. As discussed in Section 2, the Site is proposed to be redeveloped. The surrounding properties are a mix of commercial and residential use. The most stringent residential classification will be used to assess clean-up criteria for the Site.

Tier 1 ROs are numerical clean-up standards that are calculated for a minimum of three exposure pathways – direct contact by humans with exposed soil, leaching of contaminants from soil into groundwater, and inhalation of vapor. A variety of methods may be used to calculate ROs, subject to Illinois EPA approval.

## 5.0 RESULTS OF INVESTIGATION

### 5.1 SUBSURFACE CONDITIONS

Soil encountered at the Site primarily consisted of sandy/silty clay and sand. During drilling, Stantec was not able to reach targeted depth of 15 fbg in the boreholes due to bedrock refusal. Groundwater was not encountered in the borehole. Soil boring logs are presented in Appendix A.

### 5.2 FIELD SCREENING RESULTS

PID readings of samples collected from the boreholes ranged from 0.0 to a maximum value of 1.5 parts per million. Soil boring SB-5 produced the highest PID readings at 0 to 1 fbg. The results of the PID screening are presented on Table 1 and also included in the soil boring logs presented in Appendix A.

### 5.3 SOIL SAMPLING LABORATORY ANALYTICAL RESULTS

VOC and PAHs – No VOC (including BTEX) or PAH compounds above the most stringent Tier 1 ROs were detected in the soil samples. Since PAHs were below the most stringent Tier 1 ROs, additional soil samples collected for polychlorinated biphenyls (PCBs) were not analyzed. The soil laboratory analytical report and chain-of-custody form are presented in Appendix B. Soil laboratory results are summarized in Table 1 and Table 2.

### 5.4 GROUNDWATER ANALYTICAL RESULTS

Groundwater was not encountered during the investigation. There are no analytical results to report.

### 5.5 VAPOR INTRUSION

No vapor sampling was performed as part of this assessment. Since VOC concentrations in soil were not present at concentrations that would likely prompt a threat to occupants of the current or future buildings and groundwater was not encountered; no vapor sampling is planned at this time. However, if Site conditions change or Site redevelopment occurs, the potential for vapor migration and intrusion into current or future buildings should be reassessed.

### 5.6 QUALITY CONTROL

Analysis was conducted at the TestAmerica Laboratories, Inc. laboratory in University Park, Illinois. As noted in the project QAPP (Stantec, 2016), field duplicate samples will be used to evaluate the quality of data collected during implementation of the Grant. A statistic commonly used to evaluate the precision of measurements is relative percent difference (RD). To compare sample measurement results to field duplicate results, the RD was calculated per the following equation:

$$RD (\%) = \frac{(C_1 - C_2)}{\left[ \frac{(C_1 + C_2)}{2} \right]} \times 100$$

Where C1 and C2 are concentrations in the sample and in the field duplicate sample, respectively. An RD of 0% indicates the two measurements are equal while a larger RD indicates an increasing difference between the two measurements. In cases where either the sample value or field duplicate value was less than the laboratory reporting limit, an RD could not be calculated. Some of the detected analytes did not meet the RD criteria. A quality assurance analysis of data for duplicate soil samples is presented on Table 3.

Laboratory analytical results indicated concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene in soil samples SB-9 (1-2) and field duplicate (FD-1). The calculated RD for these analytes ranged from 3.9% to 12.5%, which is below the proposed 50% RD in the QAPP (Stantec, 2016). Therefore, the laboratory analytical data are considered to have met the validation criteria.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

Results of the Phase II ESA indicate that VOC and PAH concentrations in soil samples collected at the Site were not detected above the applicable Tier 1 ROs. Additional investigation is not proposed at this time.

## **7.0 DISCLAIMER AND LIMITATIONS**

The Phase II ESA was performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the course of the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.

Stantec does not warrant that this submittal represents an exhaustive study of all possible environmental concerns at the project area. The items investigated as part of this study represent likely sources of environmental concerns at the project area, and are consequently believed to adequately address the public at risk at the present time.

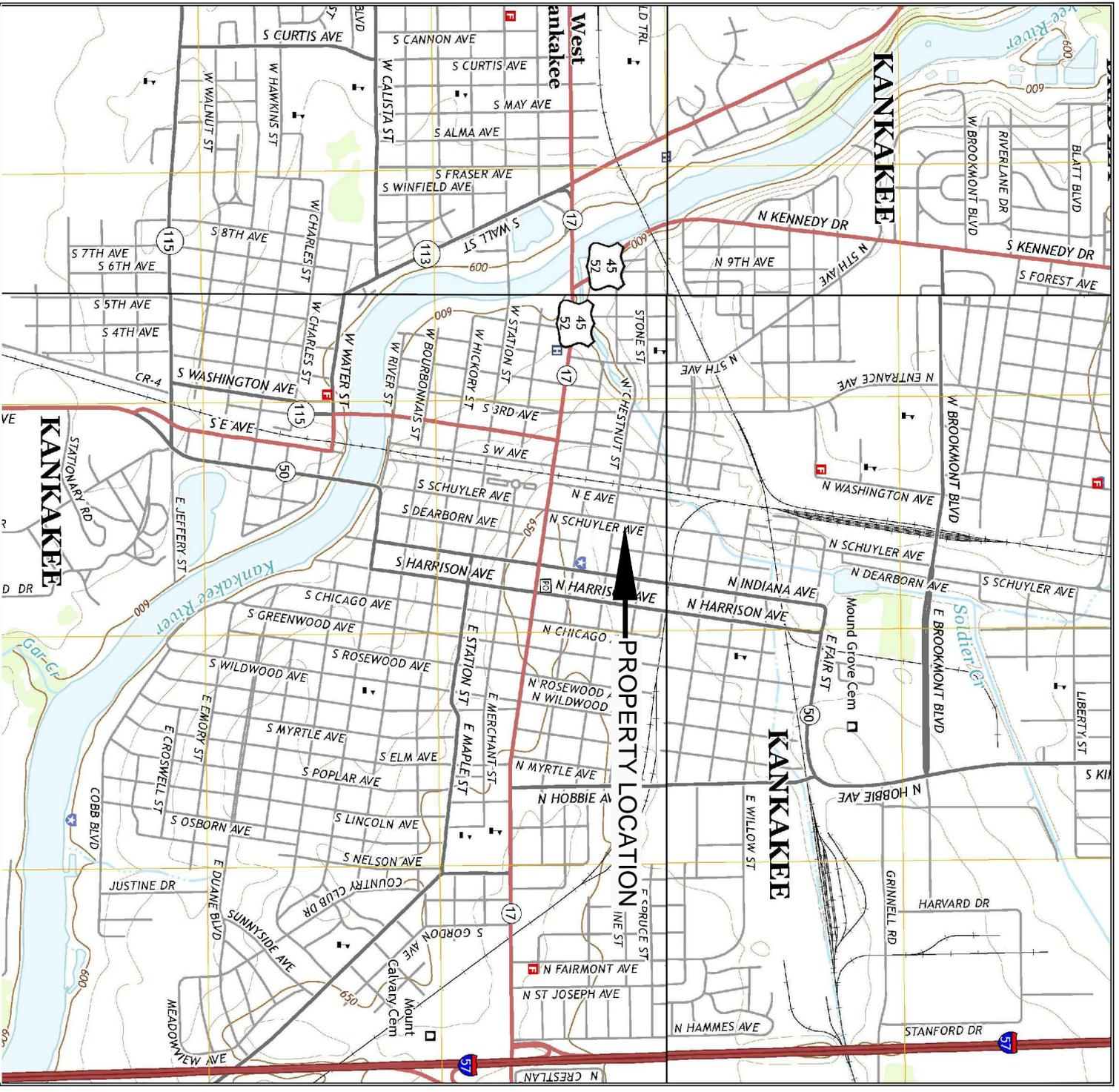
## **8.0 REFERENCES**

Stantec. 2016. Quality Assurance Project Plan (Stantec, 2016), Implementation of U.S. EPA Assessment Grants for Petroleum and Hazardous Substance Brownfields, City of Kankakee, IL, U.S. EPA Cooperative Agreement Nos. BF00E01381-0. April 8, 2016.

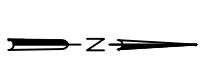
Stantec Consulting Services Inc., (Stantec, 2016a), "Phase I Environmental Site Assessment, 350 – 394 N Schuyler Avenue, Kankakee, Illinois" (dated September 27, 2016).

Stantec Consulting Services Inc., (Stantec, 2016b), "Site-Specific Sampling and Analysis Plan, Phase II Environmental Site Assessment, 350 – 394 N Schuyler Avenue, Kankakee, Illinois" (dated December 20, 2016).

## **FIGURES**



SOURCE MAPS:  
 USGS 7.5 MINUTE  
 TOPOGRAPHIC MAPS  
 BOURBONNAIS, ILLINOIS, 2015,  
 BRADLEY, ILLINOIS, 2015,  
 WEST KANKAKEE, ILLINOIS, 2015, AND  
 KANKAKEE, ILLINOIS, 2015 QUADRANGLES



FOR:

CITY OF KANKAKEE  
 350-394 N. SCHUYLER AVENUE  
 KANKAKEE, ILLINOIS

FIGURE:

**1**



446 EISENHOWER LANE NORTH  
 LOMBARD, ILLINOIS 60148  
 PHONE (630) 792-1680 FAX (630) 792-1691

JOB NUMBER:  
 182609844

DRAWN BY:  
 KM

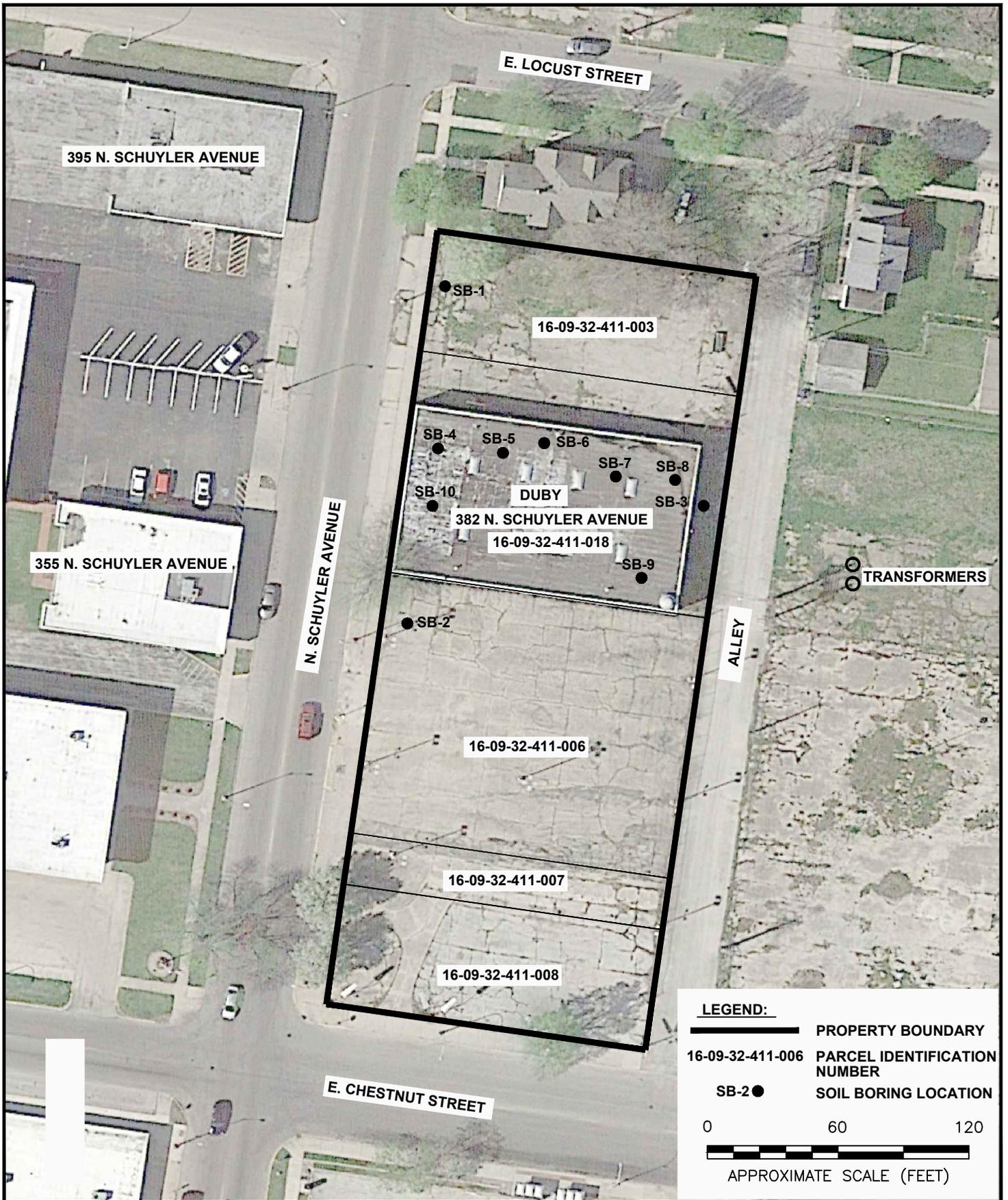
CHECKED BY:  
 CK

APPROVED BY:  
 MB

DATE:  
 08/29/16

**PROPERTY LOCATION MAP**

FILEPATH:W:\0- LOMBARD\182609844\KANKAKEE\382 SCHUYLER AVENUE\182609844-44-SLM3.dwg\Kitchell\Sep '19, 2016 at 11:44LAYOUT: 382 SCHUYLER



**LEGEND:**

— PROPERTY BOUNDARY

16-09-32-411-006 PARCEL IDENTIFICATION NUMBER

● SB-2 SOIL BORING LOCATION

0 60 120

APPROXIMATE SCALE (FEET)

|   |  |                 |                                  |                    |                     |
|---|--|-----------------|----------------------------------|--------------------|---------------------|
|  <p>446 EISENHOWER LANE NORTH<br/>LOMBARD, ILLINOIS 60148<br/>PHONE (630) 792-1680 FAX (630) 792-1691</p> | FOR:<br>CITY OF KANKAKEE<br>350-394 N. SCHUYLER AVENUE<br>KANKAKEE, ILLINOIS |                 | <b>SOIL BORING LOCATIONS MAP</b> |                    | FIGURE:<br><b>2</b> |
|   | JOB NUMBER:<br>182609844   | DRAWN BY:<br>KM | CHECKED BY:<br>CK                | APPROVED BY:<br>LP | DATE:<br>03/15/17   |

## **TABLES**



**Table 2: Soil Sample PAH Laboratory Results**

350-394 N Schuyler Avenue, Kankakee, Illinois

| Sample                        |                       |       |                   |                  | Polynuclear Aromatic Hydrocarbons |                |            |                    |                |                      |                      |                      |          |                        |              |          |                        |             |              |        |     |
|-------------------------------|-----------------------|-------|-------------------|------------------|-----------------------------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|----------|------------------------|--------------|----------|------------------------|-------------|--------------|--------|-----|
| Borehole ID                   | Sample ID (Depth BGS) | Date  | PID Reading (ppm) | Soil Description | Acenaphthene                      | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |     |
| Exposure Routes - Residential |                       |       |                   | Inhalation       | NRO                               | NRO            | NRO        | NRO                | NRO            | NRO                  | NRO                  | NRO                  | NRO      | NRO                    | NRO          | NRO      | NRO                    | NRO         | 170          | NRO    | NRO |
|                               |                       |       |                   | Ingestion        | 4,700                             | 2,300          | 23,000     | 0.9                | 0.09           | 0.9                  | 2,300                | 9                    | 88       | 0.09                   | 3,100        | 3,100    | 0.9                    | 1,600       | 2,300        | 2,300  |     |
| Soil to Groundwater Class I   |                       |       |                   |                  | 570                               | 85             | 12,000     | 2                  | 8              | 5                    | 27,000               | 49                   | 160      | 2                      | 4,300        | 560      | 14                     | 12          | 210          | 4,200  |     |
| Soil to Groundwater Class II  |                       |       |                   |                  | 2,900                             | 420            | 59,000     | 8                  | 82             | 25                   | 130,000              | 250                  | 800      | 7.6                    | 21,000       | 2,800    | 69                     | 18          | 1,100        | 21,000 |     |
| SB-1                          | SB-1 (0-1)            | ##### | 0.1               | Silty Clay       | <0.039                            | <0.039         | <0.039     | <0.039             | <0.039         | <0.039               | <0.039               | <0.039               | <0.039   | <0.039                 | <0.039       | <0.039   | <0.039                 | <0.039      | <0.039       | <0.039 |     |
| SB-2                          | SB-2 (5-6)            | ##### | 1.1               | Sand             | <0.036                            | <0.036         | <0.036     | <0.036             | <0.036         | <0.036               | <0.036               | <0.036               | <0.036   | <0.036                 | <0.036       | <0.036   | <0.036                 | <0.036      | <0.036       | <0.036 |     |
| SB-3                          | SB-3 (4-5)            | ##### | 0.8               | Sand             | <0.034                            | <0.034         | <0.034     | <0.034             | <0.034         | <0.034               | <0.034               | <0.034               | <0.034   | <0.034                 | <0.034       | <0.034   | <0.034                 | <0.034      | <0.034       | <0.034 |     |
| SB-4                          | SB-4 (4-5)            | ##### | 0.4               | Sand             | <0.036                            | <0.036         | <0.036     | <0.036             | <0.036         | <0.036               | <0.036               | <0.036               | <0.036   | <0.036                 | <0.036       | <0.036   | <0.036                 | <0.036      | <0.036       | <0.036 |     |
| SB-5                          | SB-5 (5-6)            | ##### | 1.1               | Sandy Clay       | <0.036                            | <0.036         | <0.036     | <0.036             | <0.036         | <0.036               | <0.036               | <0.036               | <0.036   | <0.036                 | <0.036       | <0.036   | <0.036                 | <0.036      | <0.036       | <0.036 |     |
| SB-6                          | SB-6 (0.5-1.5)        | ##### | 0.6               | Clay             | <0.038                            | <0.038         | <0.038     | <0.038             | <0.038         | <0.038               | <0.038               | <0.038               | <0.038   | <0.038                 | <0.038       | <0.038   | <0.038                 | <0.038      | <0.038       | <0.038 |     |
| SB-7                          | SB-7 (6-7)            | ##### | 0.2               | Sandy Clay       | <0.036                            | <0.036         | <0.036     | <0.036             | <0.036         | <0.036               | <0.036               | <0.036               | <0.036   | <0.036                 | <0.036       | <0.036   | <0.036                 | <0.036      | <0.036       | <0.036 |     |
| SB-8                          | SB-8 (2-3)            | ##### | 0.7               | Silty Clay       | <0.039                            | <0.039         | <0.039     | <0.039             | <0.039         | <0.039               | <0.039               | <0.039               | <0.039   | <0.039                 | <0.039       | <0.039   | <0.039                 | <0.039      | <0.039       | <0.039 |     |
| SB-9                          | SB-9 (1-2)            | ##### | 0.5               | Silty Clay       | <0.037                            | <0.037         | <0.037     | 0.046              | 0.050          | 0.081                | <0.037               | <0.037               | 0.054    | <0.037                 | 0.094        | <0.037   | <0.037                 | <0.037      | 0.048        | 0.080  |     |
|                               | FD-1                  | ##### | 0.5               | Silty Clay       | <0.039                            | <0.039         | <0.039     | 0.057              | 0.061          | 0.096                | <0.039               | <0.039               | 0.068    | <0.039                 | 0.11         | <0.039   | <0.039                 | <0.039      | 0.080        | 0.098  |     |
| SB-10                         | SB-10 (1-2)           | ##### | 0.2               | Clay             | <0.039                            | <0.039         | <0.039     | <0.039             | <0.039         | <0.039               | <0.039               | <0.039               | <0.039   | <0.039                 | <0.039       | <0.039   | <0.039                 | <0.039      | <0.039       | <0.039 |     |

Notes:

ppm = parts per million

BGS = Feet Below Ground Surface

\* No remediation objective established, value shown is the background concentration for Metropolitan Statistical Areas

NRO = No Remediation Objective established

< = Analyte was not detected at a concentration greater than the laboratory reporting limit.

- = not analyzed

All results are milligram per kilogram (mg/kg)

FD = Field Duplicate

**Table 3: QA Sample Summary for Soil**

350-394 N Schuyler Avenue, Kankakee, Illinois

| Constituents                             | 03/01/17   | 03/01/17 | RD    |
|--|------------|----------|-------|
|  | SB-9 (1-2) | FD-1     |       |
| <b>Polynuclear Aromatic Hydrocarbons</b> |            |          |       |
| Acenaphthene                             | <0.037     | <0.039   | NC    |
| Acenaphthylene                           | <0.037     | <0.039   | NC    |
| Anthracene                               | <0.037     | <0.039   | NC    |
| Benzo(a)anthracene                       | 0.046      | 0.057    | 5.3%  |
| Benzo(a)pyrene                           | 0.050      | 0.061    | 5.0%  |
| Benzo(b)fluoranthene                     | 0.081      | 0.096    | 4.2%  |
| Benzo(g,h,i)perylene                     | <0.037     | <0.039   | NC    |
| Benzo(k)fluoranthene                     | <0.037     | <0.039   | NC    |
| Chrysene                                 | 0.054      | 0.068    | 5.7%  |
| Dibenzo(a,h)anthracene                   | <0.037     | <0.039   | NC    |
| Fluoranthene                             | 0.094      | 0.11     | 3.9%  |
| Fluorene                                 | <0.037     | <0.039   | NC    |
| Indeno(1,2,3-cd)pyrene                   | <0.037     | <0.039   | NC    |
| Naphthalene                              | <0.037     | <0.039   | NC    |
| Phenanthrene                             | 0.048      | 0.080    | 12.5% |
| Pyrene                                   | 0.080      | 0.098    | 5.1%  |

## Notes:

&lt; = Analyte was not detected at a concentration greater than the laboratory reporting limit.

Concentrations shown as milligrams per kilogram (mg/kg)

NC = RD cannot be calculated as either the sample value or duplicate value is less than the laboratory reporting limit.

QA = Quality Assurance

RD = Relative Percent Difference, a measure of the relative difference between two points

FD = Field Duplicate

## **APPENDICES**

## **APPENDIX A –SOIL BORING LOGS**

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-1** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.0**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS  | Description   | Sample | Time Sample ID     | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |  |     |
|--------------|-------------|-------|---|--------|--------------------|------------------------|------------|-----------------------|--------------|--|-----|
| 1240         |             | GW    | GW; Asphalt   |        | 13:00<br>SB-1(0-1) | 4.167                  | 0          | 0                     | 10           |  |     |
|              |             | CL-ML | SILTY CLAY ; CL-ML; dark brown; firm                |        |                    |                        |            |                       |              |  | 0.1 |
|              |             | CL-ML | SILTY CLAY WITH GRAVEL ; CL-ML; brown; hard         |        |                    |                        |            |                       |              |  | 0   |
| 5            |             | CL-ML | SILTY CLAY WITH GRAVEL ; CL-ML; brown; hard         |        |                    |                        |            |                       |              |  | 0   |
| 1255         |             |       | Refusal at 10 feet. Borehole terminated at 10 feet. |        |                    | 5                      | 0          |                       | 10           |  |     |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-2** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **2/28/17** COMPLETED: **2/28/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **JS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.2**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS                          | Description   | Sample | Time Sample ID    | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|-------------------------------|---|--------|-------------------|------------------------|------------|-----------------------|--------------|
| 13:25        |             | GW<br>GP<br>SP<br>GP<br>CL-ML | GW: Asphalt<br>GP: Crushed concrete<br>POORLY GRADED SAND ; SP; brown; moist<br>POORLY GRADED SAND ; SP; brown; moist<br>GP: moist; Gravelly concrete<br>SILTY CLAY WITH GRAVEL ; CL-ML; brown; hard; dry |        |                   |                        |            |                       |              |
|              |             |                               |   |        | 1355<br>SB-2(5-6) | 3.333                  | 1.0        | 0.5                   | 5            |
|              |             |                               |   |        |                   | 4                      | 1.1        | 0.7                   | 10           |
| 13:655       |             |                               | Refusal at 10.167 feet. Borehole terminated at 10.167 feet.   |        |                   |                        |            |                       | 10           |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-3** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **2/28/17** COMPLETED: **2/28/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft): EASTING (ft):  
 LAT: LONG:  
 GROUND ELEV (ft): TOC ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered** WELL DEPTH (ft): ---  
 STATIC DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **9.0**  
 WELL CASING DIA. (in): --- BOREHOLE DIA. (in): **3.25**  
 LOGGED BY: **JS** CHECKED BY:

| Depth (feet) | Graphic Log                                       | USCS  | Description                                      | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|---|-------|--|--------|----------------|------------------------|------------|-----------------------|--------------|
| 1405         |   | CL-ML | SILTY CLAY ; CL-ML; brown; hard; dry             |        | 1435 SB-3(4-5) | 3.167                  |            | 0.5                   |              |
|              |   | ML-GW | SANDY GRAVEL ; GW; well graded                   |        |                |                        |            |                       |              |
|              |   | CL-ML | SILTY CLAY SOME GRAVEL ; CL-ML; black; firm; dry |        |                |                        |            |                       |              |
|              |   | ML-SP | SAND ; SP; brown; moist; poorly graded           |        |                |                        |            |                       |              |
| 5            |   | CL    | SANDY CLAY ; CL; brown; soft; moist              |        |                |                        |            |                       |              |
|              |   | CL-ML | SILTY CLAY WITH GRAVEL ; CL-ML; brown; hard; dry |        |                | 3.667                  |            | 0.8                   |              |
| 1435         | Refusal at 9 feet. Borehole terminated at 9 feet. |       |  |        |                |                        |            |                       |              |
| 10           |   |       |  |        |                |                        |            |                       |              |
| 15           |   |       |  |        |                |                        |            |                       |              |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-4** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.2**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS  | Description   | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|-------|---|--------|----------------|------------------------|------------|-----------------------|--------------|
| 809          |             | GW    | GW; Concrete  |        |                |                        |            | 0.5                   |              |
|              |             | CL-ML | SILTY CLAY WITH SAND ; CL-ML; brown; hard; dry              |        |                |                        |            | 0.3                   |              |
|              |             | SP    | POORLY GRADED SAND ; SP; brown; moist                       |        |                | 2.667                  |            |                       |              |
| 5            |             | CL-ML | SILTY CLAY WITH GRAVEL ; CL-ML; brown; hard; dry            |        | SB-4(4-5)      |                        |            | 0.4                   | 5            |
|              |             | CL-ML |   |        |                |                        |            | 0.1                   |              |
|              |             | CL-ML |   |        |                | 5                      |            | 0.1                   |              |
|              |             | CL-ML |   |        |                |                        |            | 0.1                   |              |
| 10           |             |       | Refusal at 10.167 feet. Borehole terminated at 10.167 feet. |        |                |                        |            |                       | 10           |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-5** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.0**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS  | Description   | Sample | Time Sample ID    | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|-------|---|--------|-------------------|------------------------|------------|-----------------------|--------------|
| 0915         |             | GW    | GW; Concrete  |        | .                 |                        |            | 1.5                   |              |
|              |             | CL-ML | SILTY CLAY ; CL-ML; brown; moist                              |        | .                 |                        |            | 0.4                   |              |
|              |             | CL    | SANDY CLAY WITH GRAVEL ; CL; brown; firm; iron oxide staining |        | .                 |                        |            |                       |              |
|              |             |       |   |        |                   | 4.417                  |            |                       |              |
|              |             |       |   |        | .                 |                        |            | 0.9                   |              |
| 5            |             | CL    | SANDY CLAY WITH GRAVEL ; CL; brown; hard; iron oxide staining |        | 0945<br>SB-5(5-6) |                        |            | 1.1                   | 5            |
|              |             |       |   |        | .                 |                        |            | 0.1                   |              |
|              |             |       |   |        | .                 | 5                      |            |                       |              |
|              |             |       |   |        | .                 |                        |            | 0.7                   |              |
| 0935         |             |       | Refusal at 10 feet. Borehole terminated at 10 feet.           |        |                   |                        |            |                       | 10           |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-6** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft): EASTING (ft):  
 LAT: LONG:  
 GROUND ELEV (ft): TOC ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered** WELL DEPTH (ft): ---  
 STATIC DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.2**  
 WELL CASING DIA. (in): --- BOREHOLE DIA. (in): **3.25**  
 LOGGED BY: **ATS** CHECKED BY:

| Depth (feet) | Graphic Log | USCS | Description   | Sample | Time Sample ID        | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|------|---|--------|-----------------------|------------------------|------------|-----------------------|--------------|
| 0935         |             | GW   | GW; Concrete  |        |                       |                        |            | 0.6                   |              |
|              |             | CL   | CLAY ; CL; dark brown                                       |        |                       |                        |            | 0.1                   |              |
|              |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown                          |        | 1020<br>SB-6(0.5-1.5) |                        |            |                       |              |
|              |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown                          |        |                       | 3.750                  |            | 0.0                   |              |
| 5            |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard                    |        |                       |                        |            | 0.0                   | 5            |
|              |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard                    |        |                       |                        |            | 0.0                   |              |
|              |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard                    |        |                       |                        | 5          | 0.1                   |              |
| 10           |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard                    |        |                       |                        |            | 0.1                   | 10           |
| 0950         |             |      | Refusal at 10.167 feet. Borehole terminated at 10.167 feet. |        |                       |                        |            |                       |              |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-7** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.1**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS | Description   | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|------|---|--------|----------------|------------------------|------------|-----------------------|--------------|
| 1030         |             |      | Concrete  |        |                |                        |            | 0.4                   |              |
|              |             | CL   | <b>CLAY</b> ; CL; dark brown; firm                          |        |                |                        |            | 0.1                   |              |
|              |             | CL   | <b>SANDY CLAY</b> ; CL; brown; firm                         |        |                | 3.667                  |            | 0.1                   |              |
| 5            |             | CL   | <b>SANDY CLAY WITH GRAVEL</b> ; CL; brown; firm             |        |                |                        |            | 0.1                   | 5            |
|              |             |      |   |        | 1110 SB-7(6-7) |                        |            | 0.2                   |              |
|              |             |      |   |        |                | 10.083                 |            | 0.1                   |              |
| 1050         |             |      | Refusal at 10.083 feet. Borehole terminated at 10.083 feet. |        |                |                        |            |                       | 10           |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-8** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft): EASTING (ft):  
 LAT: LONG:  
 GROUND ELEV (ft): TOC ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered** WELL DEPTH (ft): ---  
 STATIC DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **9.0**  
 WELL CASING DIA. (in): --- BOREHOLE DIA. (in): **3.25**  
 LOGGED BY: **ATS** CHECKED BY:

| Depth (feet) | Graphic Log | USCS  | Description   | Sample | Time Sample ID | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|-------|---|--------|----------------|------------------------|------------|-----------------------|--------------|
| 1125         |             | GW    | GW; Concrete  |        |                |                        |            | 0.7                   |              |
|              |             | CL    | <b>SANDY CLAY WITH GRAVEL</b> ; CL; black; soft; moist; with asphalt inclusions |        |                |                        |            | 0.1                   |              |
|              |             | CL-ML | <b>SILTY CLAY</b> ; CL-ML; blackish brown; soft                                 |        | 1145 SB-8(2-3) | 3                      |            | 0.7                   |              |
| 5            |             | CL-ML | <b>SILTY CLAY</b> ; CL-ML; dark brown; soft                                     |        |                |                        |            | 0.2                   | 5            |
|              |             | CL-ML | <b>SILTY CLAY WITH GRAVEL</b> ; CL-ML; dark grayish brown; soft                 |        |                |                        |            | 0.3                   |              |
|              |             | CL-ML | <b>SILTY CLAY WITH GRAVEL</b> ; CL-ML; brown; hard                              |        |                | 4                      |            | 0.2                   |              |
| 1140         |             |       | Refusal at 9 feet. Borehole terminated at 10 feet.                              |        |                |                        |            |                       |              |
| 10           |             |       |   |        |                |                        |            |                       |              |
| 15           |             |       |   |        |                |                        |            |                       |              |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-9** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.0**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS  | Description  | Sample | Time Sample ID              | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|-------|--|--------|-----------------------------|------------------------|------------|-----------------------|--------------|
| 1145         |             | GW    | GW; Concrete   |        |                             |                        |            | 0.5                   |              |
|              |             | CL-ML | <b>SILTY CLAY</b> ; CL-ML; dark brown; hard                          |        | 1215<br>SB-9(1-2) &<br>FD-1 |                        |            | 0.1                   |              |
|              |             | CL    | <b>SANDY CLAY</b> ; CL; brown; hard                                  |        |                             | 4                      |            | 0.0                   |              |
| 5            |             | CL    | <b>SANDY CLAY WITH GRAVEL</b> ; CL; brown; hard; iron oxide staining |        |                             |                        |            | 0.1                   | 5            |
|              |             |       |  |        |                             | 5                      |            | 0.0                   |              |
|              |             |       |  |        |                             |                        |            | 0.0                   |              |
| 1200         |             |       | Refusal at 10 feet. Borehole terminated at 10 feet.                  |        |                             |                        |            |                       | 10           |

PROJECT: **Chevy/Duby**  
 LOCATION: **350 N Schuyler Ave Kankakee, IL**  
 PROJECT NUMBER: **182609844**

WELL / PROBEHOLE / BOREHOLE NO

**SB-10** PAGE 1 OF 1



DRILLING / INSTALLATION:  
 STARTED **3/1/17** COMPLETED: **3/1/17**  
 DRILLING COMPANY: **JSS**  
 DRILLING EQUIPMENT: **Geoprobe**  
 DRILLING METHOD: **Direct Push**  
 SAMPLING EQUIPMENT: **Dual Tube**

NORTHING (ft):  
 LAT:  
 GROUND ELEV (ft):  
 INITIAL DTW (ft): **Not Encountered**  
 STATIC DTW (ft): **Not Encountered**  
 WELL CASING DIA. (in): ---  
 LOGGED BY: **ATS**

EASTING (ft):  
 LONG:  
 TOC ELEV (ft):  
 WELL DEPTH (ft): ---  
 BOREHOLE DEPTH (ft): **10.0**  
 BOREHOLE DIA. (in): **3.25**  
 CHECKED BY:

| Depth (feet) | Graphic Log | USCS | Description  | Sample | Time Sample ID     | Measured Recov. (feet) | Blow Count | Headspace PID (units) | Depth (feet) |
|--------------|-------------|------|--|--------|--------------------|------------------------|------------|-----------------------|--------------|
| 0830         |             | GW   | GW: Concrete   |        |                    |                        |            | 0.1                   |              |
|              |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard; moist; 2-inch sand lense at 3.5' |        | 0905<br>SB-10(1-2) | 3.750                  |            | 0.2                   |              |
|              |             |      |  |        |                    |                        |            | 0.2                   |              |
| 5            |             | CL   | SANDY CLAY WITH GRAVEL ; CL; brown; hard; iron oxide staining              |        |                    |                        |            | 0.2                   | 5            |
|              |             |      |  |        |                    |                        |            | 0.2                   |              |
|              |             |      |  |        |                    | 5                      |            | 0.2                   |              |
|              |             |      |  |        |                    |                        |            | 0.2                   |              |
| 0845         |             | CL   | CLAY ; CL; brown; soft   |        |                    |                        |            |                       |              |
| 10           |             |      | Refusal at 10 feet. Borehole terminated at 10 feet.                        |        |                    |                        |            |                       | 10           |



**PHASE II ESA**

350 – 394 N Schuyler Avenue, Kankakee, Illinois

March 23, 2017

## **APPENDIX B – LABORATORY ANALYTICAL REPORT**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-124510-1  
Client Project/Site: Chevy/Duby

For:  
Stantec Consulting Corp.  
446 Eisenhower Lane North  
Lombard, Illinois 60148

Attn: Mr. Chris Kocka



Authorized for release by:  
3/14/2017 3:02:45 PM  
Eric Lang, Manager of Project Management  
(708)534-5200  
[eric.lang@testamericainc.com](mailto:eric.lang@testamericainc.com)  
Designee for  
Jim Knapp, Project Manager II  
(630)758-0262  
[jim.knapp@testamericainc.com](mailto:jim.knapp@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Job ID: 500-124510-1**

**Laboratory: TestAmerica Chicago**

## Narrative

**Job Narrative**  
**500-124510-1**

### Comments

No additional comments.

### Receipt

The samples were received on 3/1/2017 3:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

### GC/MS VOA

Method(s) 8260B: Due to sample matrix effect upon the internal standards (ISTD), a dilution was required for the following sample. The sample was analyzed twice using the low level soil method with all internal standards failing QC limits. The high level soil method was then utilized for analysis, with all internal standards meeting QC criteria. Elevated reporting have been provided.: SB-4(4-5) (500-124510-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Client Sample ID: SB-2(5-6)

Lab Sample ID: 500-124510-1

No Detections.

## Client Sample ID: SB-3(4-5)

Lab Sample ID: 500-124510-2

No Detections.

## Client Sample ID: SB-4(4-5)

Lab Sample ID: 500-124510-3

No Detections.

## Client Sample ID: SB-10(1-2)

Lab Sample ID: 500-124510-4

No Detections.

## Client Sample ID: SB-5(5-6)

Lab Sample ID: 500-124510-5

| Analyte               | Result | Qualifier | RL     | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|--------|-----|-------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 0.038  |           | 0.0018 |     | mg/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Tetrachloroethene     | 0.058  |           | 0.0018 |     | mg/Kg | 1       | ☼ | 8260B  | Total/NA  |

## Client Sample ID: SB-6(0.5-1.5)

Lab Sample ID: 500-124510-6

No Detections.

## Client Sample ID: SB-7(6-7)

Lab Sample ID: 500-124510-7

| Analyte               | Result | Qualifier | RL     | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|--------|-----|-------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 0.0029 |           | 0.0016 |     | mg/Kg | 1       | ☼ | 8260B  | Total/NA  |
| Tetrachloroethene     | 0.0060 |           | 0.0016 |     | mg/Kg | 1       | ☼ | 8260B  | Total/NA  |

## Client Sample ID: SB-8(2-3)

Lab Sample ID: 500-124510-8

| Analyte           | Result | Qualifier | RL     | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|--------|-----|-------|---------|---|--------|-----------|
| Tetrachloroethene | 0.0039 |           | 0.0021 |     | mg/Kg | 1       | ☼ | 8260B  | Total/NA  |

## Client Sample ID: SB-9(1-2)

Lab Sample ID: 500-124510-9

| Analyte              | Result | Qualifier | RL    | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Benzo[a]anthracene   | 0.046  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Benzo[a]pyrene       | 0.050  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Benzo[b]fluoranthene | 0.081  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Chrysene             | 0.054  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Fluoranthene         | 0.094  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Phenanthrene         | 0.048  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Pyrene               | 0.080  |           | 0.037 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |

## Client Sample ID: SB-1(0-1)

Lab Sample ID: 500-124510-10

No Detections.

## Client Sample ID: FD-1

Lab Sample ID: 500-124510-11

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Client Sample ID: FD-1 (Continued)

## Lab Sample ID: 500-124510-11

| Analyte              | Result | Qualifier | RL    | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Benzo[a]anthracene   | 0.057  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Benzo[a]pyrene       | 0.061  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Benzo[b]fluoranthene | 0.096  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Chrysene             | 0.068  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Fluoranthene         | 0.11   |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Phenanthrene         | 0.080  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |
| Pyrene               | 0.098  |           | 0.039 |     | mg/Kg | 1       | ☼ | 8270D  | Total/NA  |

## Client Sample ID: TB-1

## Lab Sample ID: 500-124510-12

No Detections.

# Method Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

| Method   | Method Description                     | Protocol | Laboratory |
|----------|--|----------|------------|
| 8260B    | Volatile Organic Compounds (GC/MS)     | SW846    | TAL CHI    |
| 8270D    | Semivolatile Organic Compounds (GC/MS) | SW846    | TAL CHI    |
| Moisture | Percent Moisture                       | EPA      | TAL CHI    |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Sample Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-124510-1  | SB-2(5-6)        | Solid  | 02/28/17 13:55 | 03/01/17 15:20 |
| 500-124510-2  | SB-3(4-5)        | Solid  | 02/28/17 14:35 | 03/01/17 15:20 |
| 500-124510-3  | SB-4(4-5)        | Solid  | 03/01/17 08:35 | 03/01/17 15:20 |
| 500-124510-4  | SB-10(1-2)       | Solid  | 03/01/17 09:05 | 03/01/17 15:20 |
| 500-124510-5  | SB-5(5-6)        | Solid  | 03/01/17 09:45 | 03/01/17 15:20 |
| 500-124510-6  | SB-6(0.5-1.5)    | Solid  | 03/01/17 10:20 | 03/01/17 15:20 |
| 500-124510-7  | SB-7(6-7)        | Solid  | 03/01/17 11:10 | 03/01/17 15:20 |
| 500-124510-8  | SB-8(2-3)        | Solid  | 03/01/17 11:45 | 03/01/17 15:20 |
| 500-124510-9  | SB-9(1-2)        | Solid  | 03/01/17 12:15 | 03/01/17 15:20 |
| 500-124510-10 | SB-1(0-1)        | Solid  | 03/01/17 13:00 | 03/01/17 15:20 |
| 500-124510-11 | FD-1             | Solid  | 03/01/17 12:20 | 03/01/17 15:20 |
| 500-124510-12 | TB-1             | Water  | 03/01/17 00:00 | 03/01/17 15:20 |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-2(5-6)**

**Lab Sample ID: 500-124510-1**

**Date Collected: 02/28/17 13:55**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 89.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte        | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| Toluene        | ND     |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| Ethylbenzene   | ND     |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| Xylenes, Total | ND     |           | 0.0031 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 14:23 | 1       |
| Dibromofluoromethane         | 106       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 14:23 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Acenaphthylene         | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Anthracene             | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Chrysene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Fluoranthene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Naphthalene            | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Phenanthrene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Pyrene                 | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Fluorene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:17 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 88        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| 2-Fluorobiphenyl       | 86        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 11:17 | 1       |
| Terphenyl-d14 (Surr)   | 92        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 11:17 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-3(4-5)**

**Lab Sample ID: 500-124510-2**

**Date Collected: 02/28/17 14:35**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 93.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                    | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,1,2-Trichloroethane      | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,1-Dichloroethane         | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,1-Dichloroethene         | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,2-Dichloroethane         | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,2-Dichloropropane        | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 1,3-Dichloropropene, Total | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 2-Hexanone                 | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Acetone                    | ND     |           | 0.015  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Benzene                    | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Bromodichloromethane       | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Bromoform                  | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Bromomethane               | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Carbon disulfide           | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Carbon tetrachloride       | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Chlorobenzene              | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Chloroethane               | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Chloroform                 | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Chloromethane              | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| cis-1,2-Dichloroethene     | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| cis-1,3-Dichloropropene    | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Dibromochloromethane       | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Ethylbenzene               | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Methyl Ethyl Ketone        | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| methyl isobutyl ketone     | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Methyl tert-butyl ether    | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Methylene Chloride         | ND     |           | 0.0038 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Styrene                    | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Tetrachloroethene          | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Toluene                    | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| trans-1,2-Dichloroethene   | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| trans-1,3-Dichloropropene  | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Trichloroethene            | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Vinyl chloride             | ND     |           | 0.0015 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Xylenes, Total             | ND     |           | 0.0030 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 14:49 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 14:49 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 14:49 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Acenaphthylene     | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Anthracene         | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Benzo[a]anthracene | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-3(4-5)**

**Lab Sample ID: 500-124510-2**

**Date Collected: 02/28/17 14:35**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 93.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Chrysene               | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Fluoranthene           | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Naphthalene            | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Phenanthrene           | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Pyrene                 | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Fluorene               | ND     |           | 0.034 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 11:45 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 88        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| 2-Fluorobiphenyl       | 86        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 11:45 | 1       |
| Terphenyl-d14 (Surr)   | 91        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 11:45 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-4(4-5)**

**Lab Sample ID: 500-124510-3**

**Date Collected: 03/01/17 08:35**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 88.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                    | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,1,2-Trichloroethane      | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,1-Dichloroethane         | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,1-Dichloroethene         | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,2-Dichloroethane         | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,2-Dichloropropane        | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 1,3-Dichloropropene, Total | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 2-Hexanone                 | ND     |           | 0.27  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Acetone                    | ND     |           | 0.27  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Benzene                    | ND     |           | 0.013 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Bromodichloromethane       | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Bromoform                  | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Bromomethane               | ND     |           | 0.11  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Carbon disulfide           | ND     |           | 0.11  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Carbon tetrachloride       | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Chlorobenzene              | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Chloroethane               | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Chloroform                 | ND     |           | 0.11  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Chloromethane              | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| cis-1,2-Dichloroethene     | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| cis-1,3-Dichloropropene    | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Dibromochloromethane       | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Ethylbenzene               | ND     |           | 0.013 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Methyl Ethyl Ketone        | ND     |           | 0.27  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| methyl isobutyl ketone     | ND     |           | 0.27  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Methyl tert-butyl ether    | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Methylene Chloride         | ND     |           | 0.27  |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Styrene                    | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Tetrachloroethene          | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Toluene                    | ND     |           | 0.013 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| trans-1,2-Dichloroethene   | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| trans-1,3-Dichloropropene  | ND     |           | 0.054 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Trichloroethene            | ND     |           | 0.027 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Vinyl chloride             | ND     |           | 0.027 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Xylenes, Total             | ND     |           | 0.027 |     | mg/Kg | ☼ | 03/01/17 08:35 | 03/10/17 15:14 | 50      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 118       |           | 71 - 127 | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 71 - 120 | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Dibromofluoromethane         | 104       |           | 70 - 120 | 03/01/17 08:35 | 03/10/17 15:14 | 50      |
| Toluene-d8 (Surr)            | 108       |           | 75 - 120 | 03/01/17 08:35 | 03/10/17 15:14 | 50      |

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Acenaphthylene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Anthracene         | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Benzo[a]anthracene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-4(4-5)**

**Lab Sample ID: 500-124510-3**

**Date Collected: 03/01/17 08:35**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 88.3**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Chrysene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Fluoranthene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Naphthalene            | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Phenanthrene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Pyrene                 | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Fluorene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:14 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 86        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| 2-Fluorobiphenyl       | 82        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 12:14 | 1       |
| Terphenyl-d14 (Surr)   | 87        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 12:14 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-10(1-2)**

**Lab Sample ID: 500-124510-4**

**Date Collected: 03/01/17 09:05**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                    | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,1,2-Trichloroethane      | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,1-Dichloroethane         | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,1-Dichloroethene         | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,2-Dichloroethane         | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,2-Dichloropropane        | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 1,3-Dichloropropene, Total | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 2-Hexanone                 | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Acetone                    | ND     |           | 0.017  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Benzene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Bromodichloromethane       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Bromoform                  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Bromomethane               | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Carbon disulfide           | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Carbon tetrachloride       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Chlorobenzene              | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Chloroethane               | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Chloroform                 | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Chloromethane              | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| cis-1,2-Dichloroethene     | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| cis-1,3-Dichloropropene    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Dibromochloromethane       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Ethylbenzene               | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Methyl Ethyl Ketone        | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| methyl isobutyl ketone     | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Methyl tert-butyl ether    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Methylene Chloride         | ND     |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Styrene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Tetrachloroethene          | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Toluene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| trans-1,2-Dichloroethene   | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| trans-1,3-Dichloropropene  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Trichloroethene            | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Vinyl chloride             | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Xylenes, Total             | ND     |           | 0.0035 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 15:40 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 117       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Dibromofluoromethane         | 107       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 15:40 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 15:40 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Acenaphthylene     | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Anthracene         | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Benzo[a]anthracene | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-10(1-2)**

**Lab Sample ID: 500-124510-4**

**Date Collected: 03/01/17 09:05**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.5**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Chrysene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Fluoranthene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Naphthalene            | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Phenanthrene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Pyrene                 | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Fluorene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 12:42 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 77        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| 2-Fluorobiphenyl       | 77        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 12:42 | 1       |
| Terphenyl-d14 (Surr)   | 84        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 12:42 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-5(5-6)**

**Lab Sample ID: 500-124510-5**

**Date Collected: 03/01/17 09:45**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 86.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                      | Result       | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| <b>1,1,1-Trichloroethane</b> | <b>0.038</b> |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,1,2,2-Tetrachloroethane    | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,1,2-Trichloroethane        | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,1-Dichloroethane           | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,1-Dichloroethene           | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,2-Dichloroethane           | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,2-Dichloropropane          | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 1,3-Dichloropropene, Total   | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 2-Hexanone                   | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Acetone                      | ND           |           | 0.018  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Benzene                      | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Bromodichloromethane         | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Bromoform                    | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Bromomethane                 | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Carbon disulfide             | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Carbon tetrachloride         | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Chlorobenzene                | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Chloroethane                 | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Chloroform                   | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Chloromethane                | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| cis-1,2-Dichloroethene       | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| cis-1,3-Dichloropropene      | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Dibromochloromethane         | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Ethylbenzene                 | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Methyl Ethyl Ketone          | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| methyl isobutyl ketone       | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Methyl tert-butyl ether      | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Methylene Chloride           | ND           |           | 0.0044 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Styrene                      | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| <b>Tetrachloroethene</b>     | <b>0.058</b> |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Toluene                      | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| trans-1,2-Dichloroethene     | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| trans-1,3-Dichloropropene    | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Trichloroethene              | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Vinyl chloride               | ND           |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Xylenes, Total               | ND           |           | 0.0035 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:05 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Dibromofluoromethane         | 106       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 16:05 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 16:05 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Acenaphthylene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Anthracene         | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Benzo[a]anthracene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-5(5-6)**

**Lab Sample ID: 500-124510-5**

**Date Collected: 03/01/17 09:45**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 86.2**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Chrysene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Fluoranthene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Naphthalene            | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Phenanthrene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Pyrene                 | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Fluorene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:11 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 86        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| 2-Fluorobiphenyl       | 81        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 13:11 | 1       |
| Terphenyl-d14 (Surr)   | 89        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 13:11 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-6(0.5-1.5)**

**Lab Sample ID: 500-124510-6**

**Date Collected: 03/01/17 10:20**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                    | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,1,2-Trichloroethane      | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,1-Dichloroethane         | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,1-Dichloroethene         | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,2-Dichloroethane         | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,2-Dichloropropane        | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 1,3-Dichloropropene, Total | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 2-Hexanone                 | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Acetone                    | ND     |           | 0.017  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Benzene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Bromodichloromethane       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Bromoform                  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Bromomethane               | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Carbon disulfide           | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Carbon tetrachloride       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Chlorobenzene              | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Chloroethane               | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Chloroform                 | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Chloromethane              | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| cis-1,2-Dichloroethene     | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| cis-1,3-Dichloropropene    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Dibromochloromethane       | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Ethylbenzene               | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Methyl Ethyl Ketone        | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| methyl isobutyl ketone     | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Methyl tert-butyl ether    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Methylene Chloride         | ND     |           | 0.0043 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Styrene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Tetrachloroethene          | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Toluene                    | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| trans-1,2-Dichloroethene   | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| trans-1,3-Dichloropropene  | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Trichloroethene            | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Vinyl chloride             | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Xylenes, Total             | ND     |           | 0.0035 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101       |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 16:31 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 16:31 | 1       |

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Acenaphthylene     | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Anthracene         | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Benzo[a]anthracene | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-6(0.5-1.5)**

**Lab Sample ID: 500-124510-6**

**Date Collected: 03/01/17 10:20**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.9**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Chrysene               | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Fluoranthene           | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Naphthalene            | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Phenanthrene           | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Pyrene                 | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Fluorene               | ND     |           | 0.038 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 13:39 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 77        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| 2-Fluorobiphenyl       | 80        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 13:39 | 1       |
| Terphenyl-d14 (Surr)   | 82        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 13:39 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-7(6-7)**

**Lab Sample ID: 500-124510-7**

**Date Collected: 03/01/17 11:10**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 86.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                      | Result        | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|---------------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| <b>1,1,1-Trichloroethane</b> | <b>0.0029</b> |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,1,2,2-Tetrachloroethane    | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,1,2-Trichloroethane        | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,1-Dichloroethane           | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,1-Dichloroethene           | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,2-Dichloroethane           | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,2-Dichloropropane          | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 1,3-Dichloropropene, Total   | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 2-Hexanone                   | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Acetone                      | ND            |           | 0.016  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Benzene                      | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Bromodichloromethane         | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Bromoform                    | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Bromomethane                 | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Carbon disulfide             | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Carbon tetrachloride         | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Chlorobenzene                | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Chloroethane                 | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Chloroform                   | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Chloromethane                | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| cis-1,2-Dichloroethene       | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| cis-1,3-Dichloropropene      | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Dibromochloromethane         | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Ethylbenzene                 | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Methyl Ethyl Ketone          | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| methyl isobutyl ketone       | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Methyl tert-butyl ether      | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Methylene Chloride           | ND            |           | 0.0041 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Styrene                      | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| <b>Tetrachloroethene</b>     | <b>0.0060</b> |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Toluene                      | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| trans-1,2-Dichloroethene     | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| trans-1,3-Dichloropropene    | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Trichloroethene              | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Vinyl chloride               | ND            |           | 0.0016 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Xylenes, Total               | ND            |           | 0.0033 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 16:56 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 118       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 16:56 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 16:56 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Acenaphthylene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Anthracene         | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Benzo[a]anthracene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-7(6-7)**

**Lab Sample ID: 500-124510-7**

**Date Collected: 03/01/17 11:10**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 86.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Chrysene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Fluoranthene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Naphthalene            | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Phenanthrene           | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Pyrene                 | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Fluorene               | ND     |           | 0.036 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:07 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 89        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| 2-Fluorobiphenyl       | 85        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 14:07 | 1       |
| Terphenyl-d14 (Surr)   | 89        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 14:07 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-8(2-3)**

**Lab Sample ID: 500-124510-8**

**Date Collected: 03/01/17 11:45**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 79.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                    | Result        | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|---------------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,1,2-Trichloroethane      | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,1-Dichloroethane         | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,1-Dichloroethene         | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,2-Dichloroethane         | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,2-Dichloropropane        | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 1,3-Dichloropropene, Total | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 2-Hexanone                 | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Acetone                    | ND            |           | 0.021  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Benzene                    | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Bromodichloromethane       | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Bromoform                  | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Bromomethane               | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Carbon disulfide           | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Carbon tetrachloride       | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Chlorobenzene              | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Chloroethane               | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Chloroform                 | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Chloromethane              | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| cis-1,2-Dichloroethene     | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| cis-1,3-Dichloropropene    | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Dibromochloromethane       | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Ethylbenzene               | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Methyl Ethyl Ketone        | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| methyl isobutyl ketone     | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Methyl tert-butyl ether    | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Methylene Chloride         | ND            |           | 0.0053 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Styrene                    | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| <b>Tetrachloroethene</b>   | <b>0.0039</b> |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Toluene                    | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| trans-1,2-Dichloroethene   | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| trans-1,3-Dichloropropene  | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Trichloroethene            | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Vinyl chloride             | ND            |           | 0.0021 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Xylenes, Total             | ND            |           | 0.0042 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 123       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| 4-Bromofluorobenzene (Surr)  | 97        |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Dibromofluoromethane         | 113       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 17:22 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 17:22 | 1       |

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte            | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene       | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Acenaphthylene     | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Anthracene         | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Benzo[a]anthracene | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Benzo[a]pyrene     | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-8(2-3)**

**Lab Sample ID: 500-124510-8**

**Date Collected: 03/01/17 11:45**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 79.1**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzo[b]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Chrysene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Fluoranthene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Naphthalene            | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Phenanthrene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Pyrene                 | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Fluorene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 14:36 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 81        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| 2-Fluorobiphenyl       | 81        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 14:36 | 1       |
| Terphenyl-d14 (Surr)   | 89        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 14:36 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-9(1-2)**

**Lab Sample ID: 500-124510-9**

**Date Collected: 03/01/17 12:15**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                    | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1-Trichloroethane      | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,1,2-Trichloroethane      | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,1-Dichloroethane         | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,1-Dichloroethene         | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,2-Dichloroethane         | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,2-Dichloropropane        | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 1,3-Dichloropropene, Total | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 2-Hexanone                 | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Acetone                    | ND     |           | 0.018  |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Benzene                    | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Bromodichloromethane       | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Bromoform                  | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Bromomethane               | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Carbon disulfide           | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Carbon tetrachloride       | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Chlorobenzene              | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Chloroethane               | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Chloroform                 | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Chloromethane              | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| cis-1,2-Dichloroethene     | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| cis-1,3-Dichloropropene    | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Dibromochloromethane       | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Ethylbenzene               | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Methyl Ethyl Ketone        | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| methyl isobutyl ketone     | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Methyl tert-butyl ether    | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Methylene Chloride         | ND     |           | 0.0045 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Styrene                    | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Tetrachloroethene          | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Toluene                    | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| trans-1,2-Dichloroethene   | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| trans-1,3-Dichloropropene  | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Trichloroethene            | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Vinyl chloride             | ND     |           | 0.0018 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Xylenes, Total             | ND     |           | 0.0036 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 17:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 17:47 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 17:47 | 1       |

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte                   | Result       | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene              | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Acenaphthylene            | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Anthracene                | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Benzo[a]anthracene</b> | <b>0.046</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Benzo[a]pyrene</b>     | <b>0.050</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-9(1-2)**

**Lab Sample ID: 500-124510-9**

**Date Collected: 03/01/17 12:15**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte                     | Result       | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| <b>Benzo[b]fluoranthene</b> | <b>0.081</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Benzo[g,h,i]perylene        | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Benzo[k]fluoranthene        | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Chrysene</b>             | <b>0.054</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Dibenz(a,h)anthracene       | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Fluoranthene</b>         | <b>0.094</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Indeno[1,2,3-cd]pyrene      | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Naphthalene                 | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Phenanthrene</b>         | <b>0.048</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| <b>Pyrene</b>               | <b>0.080</b> |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Fluorene                    | ND           |           | 0.037 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:05 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 80        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| 2-Fluorobiphenyl       | 81        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 15:05 | 1       |
| Terphenyl-d14 (Surr)   | 86        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 15:05 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-1(0-1)**

**Lab Sample ID: 500-124510-10**

**Date Collected: 03/01/17 13:00**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.3**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte        | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Benzene        | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| Toluene        | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| Ethylbenzene   | ND     |           | 0.0017 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| Xylenes, Total | ND     |           | 0.0034 |     | mg/Kg | ☼ | 03/01/17 17:45 | 03/02/17 18:13 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 69 - 134 | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 75 - 123 | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 70 - 120 | 03/01/17 17:45 | 03/02/17 18:13 | 1       |
| Dibromofluoromethane         | 110       |           | 75 - 120 | 03/01/17 17:45 | 03/02/17 18:13 | 1       |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte                | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Acenaphthylene         | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Anthracene             | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Benzo[a]anthracene     | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Benzo[a]pyrene         | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Benzo[b]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Benzo[g,h,i]perylene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Benzo[k]fluoranthene   | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Chrysene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Dibenz(a,h)anthracene  | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Fluoranthene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Indeno[1,2,3-cd]pyrene | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Naphthalene            | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Phenanthrene           | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Pyrene                 | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Fluorene               | ND     |           | 0.039 |     | mg/Kg | ☼ | 03/06/17 08:01 | 03/07/17 15:33 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 82        |           | 33 - 124 | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| 2-Fluorobiphenyl       | 85        |           | 42 - 115 | 03/06/17 08:01 | 03/07/17 15:33 | 1       |
| Terphenyl-d14 (Surr)   | 89        |           | 25 - 150 | 03/06/17 08:01 | 03/07/17 15:33 | 1       |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: FD-1**

**Lab Sample ID: 500-124510-11**

**Date Collected: 03/01/17 12:20**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.0**

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

| Analyte                       | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Acenaphthene                  | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Acenaphthylene                | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Anthracene                    | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Benzo[a]anthracene</b>     | <b>0.057</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Benzo[a]pyrene</b>         | <b>0.061</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Benzo[b]fluoranthene</b>   | <b>0.096</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Benzo[g,h,i]perylene          | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Benzo[k]fluoranthene          | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Chrysene</b>               | <b>0.068</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Dibenz(a,h)anthracene         | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Fluoranthene</b>           | <b>0.11</b>      |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Indeno[1,2,3-cd]pyrene        | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Naphthalene                   | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Phenanthrene</b>           | <b>0.080</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Pyrene</b>                 | <b>0.098</b>     |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| Fluorene                      | ND               |                  | 0.039         |     | mg/Kg | ☼ | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <b>Surrogate</b>              | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>Nitrobenzene-d5 (Surr)</i> | 80               |                  | 33 - 124      |     |       |   | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <i>2-Fluorobiphenyl</i>       | 83               |                  | 42 - 115      |     |       |   | 03/06/17 08:01  | 03/07/17 16:02  | 1              |
| <i>Terphenyl-d14 (Surr)</i>   | 89               |                  | 25 - 150      |     |       |   | 03/06/17 08:01  | 03/07/17 16:02  | 1              |

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: TB-1**  
**Date Collected: 03/01/17 00:00**  
**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-12**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                    | Result | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|--------|-----------|---------|-----|------|---|----------|----------------|---------|
| Acetone                    | ND     |           | 0.0050  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Benzene                    | ND     |           | 0.00050 |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Bromodichloromethane       | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Bromoform                  | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Bromomethane               | ND     |           | 0.0020  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Methyl Ethyl Ketone        | ND     |           | 0.0050  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Carbon disulfide           | ND     |           | 0.0020  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Carbon tetrachloride       | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Chlorobenzene              | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Chloroethane               | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Chloroform                 | ND     |           | 0.0020  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Chloromethane              | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| cis-1,2-Dichloroethene     | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| cis-1,3-Dichloropropene    | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Dibromochloromethane       | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,1-Dichloroethane         | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,1-Dichloroethene         | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,2-Dichloropropane        | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Ethylbenzene               | ND     |           | 0.00050 |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 2-Hexanone                 | ND     |           | 0.0050  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Methylene Chloride         | ND     |           | 0.0050  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| methyl isobutyl ketone     | ND     |           | 0.0050  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Methyl tert-butyl ether    | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Styrene                    | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Tetrachloroethene          | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Toluene                    | ND     |           | 0.00050 |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| trans-1,2-Dichloroethene   | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| trans-1,3-Dichloropropene  | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,1,1-Trichloroethane      | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,1,2-Trichloroethane      | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Trichloroethene            | ND     |           | 0.00050 |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Vinyl chloride             | ND     |           | 0.00050 |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| Xylenes, Total             | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,2-Dichloroethane         | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |
| 1,3-Dichloropropene, Total | ND     |           | 0.0010  |     | mg/L |   |          | 03/10/17 14:44 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 82        |           | 71 - 120 |          | 03/10/17 14:44 | 1       |
| Dibromofluoromethane         | 103       |           | 70 - 120 |          | 03/10/17 14:44 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 71 - 127 |          | 03/10/17 14:44 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 75 - 120 |          | 03/10/17 14:44 | 1       |

# Definitions/Glossary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## GC/MS VOA

### Prep Batch: 374098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-124510-3  | SB-4(4-5)        | Total/NA  | Solid  | 5035   |            |

### Prep Batch: 374107

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-124510-1  | SB-2(5-6)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-2  | SB-3(4-5)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-4  | SB-10(1-2)       | Total/NA  | Solid  | 5035   |            |
| 500-124510-5  | SB-5(5-6)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-6  | SB-6(0.5-1.5)    | Total/NA  | Solid  | 5035   |            |
| 500-124510-7  | SB-7(6-7)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-8  | SB-8(2-3)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-9  | SB-9(1-2)        | Total/NA  | Solid  | 5035   |            |
| 500-124510-10 | SB-1(0-1)        | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 374120

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 500-124510-1      | SB-2(5-6)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-2      | SB-3(4-5)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-4      | SB-10(1-2)             | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-5      | SB-5(5-6)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-6      | SB-6(0.5-1.5)          | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-7      | SB-7(6-7)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-8      | SB-8(2-3)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-9      | SB-9(1-2)              | Total/NA  | Solid  | 8260B  | 374107     |
| 500-124510-10     | SB-1(0-1)              | Total/NA  | Solid  | 8260B  | 374107     |
| MB 500-374120/7   | Method Blank           | Total/NA  | Solid  | 8260B  |            |
| LCS 500-374120/5  | Lab Control Sample     | Total/NA  | Solid  | 8260B  |            |
| LCSD 500-374120/6 | Lab Control Sample Dup | Total/NA  | Solid  | 8260B  |            |

### Analysis Batch: 375238

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-124510-12    | TB-1               | Total/NA  | Water  | 8260B  |            |
| MB 500-375238/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 500-375238/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 375239

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-124510-3     | SB-4(4-5)          | Total/NA  | Solid  | 8260B  | 374098     |
| MB 500-375239/6  | Method Blank       | Total/NA  | Solid  | 8260B  |            |
| LCS 500-375239/4 | Lab Control Sample | Total/NA  | Solid  | 8260B  |            |

## GC/MS Semi VOA

### Prep Batch: 374536

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-124510-1  | SB-2(5-6)        | Total/NA  | Solid  | 3541   |            |
| 500-124510-2  | SB-3(4-5)        | Total/NA  | Solid  | 3541   |            |
| 500-124510-3  | SB-4(4-5)        | Total/NA  | Solid  | 3541   |            |
| 500-124510-4  | SB-10(1-2)       | Total/NA  | Solid  | 3541   |            |
| 500-124510-5  | SB-5(5-6)        | Total/NA  | Solid  | 3541   |            |

TestAmerica Chicago

# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 374536 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-124510-6       | SB-6(0.5-1.5)      | Total/NA  | Solid  | 3541   |            |
| 500-124510-7       | SB-7(6-7)          | Total/NA  | Solid  | 3541   |            |
| 500-124510-8       | SB-8(2-3)          | Total/NA  | Solid  | 3541   |            |
| 500-124510-9       | SB-9(1-2)          | Total/NA  | Solid  | 3541   |            |
| 500-124510-10      | SB-1(0-1)          | Total/NA  | Solid  | 3541   |            |
| 500-124510-11      | FD-1               | Total/NA  | Solid  | 3541   |            |
| MB 500-374536/1-A  | Method Blank       | Total/NA  | Solid  | 3541   |            |
| LCS 500-374536/2-A | Lab Control Sample | Total/NA  | Solid  | 3541   |            |
| 500-124510-3 MS    | SB-4(4-5)          | Total/NA  | Solid  | 3541   |            |
| 500-124510-3 MSD   | SB-4(4-5)          | Total/NA  | Solid  | 3541   |            |

### Analysis Batch: 374596

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 500-374536/1-A  | Method Blank       | Total/NA  | Solid  | 8270D  | 374536     |
| LCS 500-374536/2-A | Lab Control Sample | Total/NA  | Solid  | 8270D  | 374536     |

### Analysis Batch: 374679

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 500-124510-1     | SB-2(5-6)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-2     | SB-3(4-5)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-3     | SB-4(4-5)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-4     | SB-10(1-2)       | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-5     | SB-5(5-6)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-6     | SB-6(0.5-1.5)    | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-7     | SB-7(6-7)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-8     | SB-8(2-3)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-9     | SB-9(1-2)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-10    | SB-1(0-1)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-11    | FD-1             | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-3 MS  | SB-4(4-5)        | Total/NA  | Solid  | 8270D  | 374536     |
| 500-124510-3 MSD | SB-4(4-5)        | Total/NA  | Solid  | 8270D  | 374536     |

## General Chemistry

### Analysis Batch: 374165

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|-----------------|------------------|-----------|--------|----------|------------|
| 500-124510-1    | SB-2(5-6)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-2    | SB-3(4-5)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-3    | SB-4(4-5)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-4    | SB-10(1-2)       | Total/NA  | Solid  | Moisture |            |
| 500-124510-5    | SB-5(5-6)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-6    | SB-6(0.5-1.5)    | Total/NA  | Solid  | Moisture |            |
| 500-124510-7    | SB-7(6-7)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-8    | SB-8(2-3)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-9    | SB-9(1-2)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-10   | SB-1(0-1)        | Total/NA  | Solid  | Moisture |            |
| 500-124510-11   | FD-1             | Total/NA  | Solid  | Moisture |            |
| 500-124510-1 DU | SB-2(5-6)        | Total/NA  | Solid  | Moisture |            |

TestAmerica Chicago

# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|------------------------|--|-----------------|-----------------|------------------|
|                  |                        | 12DCE<br>(69-134)                              | TOL<br>(75-123) | BFB<br>(70-120) | DBFM<br>(75-120) |
| 500-124510-1     | SB-2(5-6)              | 113  | 102             | 101             | 106              |
| 500-124510-2     | SB-3(4-5)              | 116  | 101             | 99              | 110              |
| 500-124510-4     | SB-10(1-2)             | 117  | 102             | 101             | 107              |
| 500-124510-5     | SB-5(5-6)              | 114  | 102             | 96              | 106              |
| 500-124510-6     | SB-6(0.5-1.5)          | 119  | 103             | 101             | 110              |
| 500-124510-7     | SB-7(6-7)              | 118  | 103             | 99              | 110              |
| 500-124510-8     | SB-8(2-3)              | 123  | 106             | 97              | 113              |
| 500-124510-9     | SB-9(1-2)              | 120  | 104             | 102             | 110              |
| 500-124510-10    | SB-1(0-1)              | 120  | 104             | 102             | 110              |
| LCS 500-374120/5 | Lab Control Sample     | 111  | 105             | 104             | 102              |
| LCS 500-374120/6 | Lab Control Sample Dup | 110  | 107             | 102             | 104              |
| MB 500-374120/7  | Method Blank           | 113  | 104             | 105             | 108              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------|--------------------|--|-----------------|------------------|-----------------|
|                  |                    | 12DCE<br>(71-127)                              | BFB<br>(71-120) | DBFM<br>(70-120) | TOL<br>(75-120) |
| 500-124510-3     | SB-4(4-5)          | 118  | 94              | 104              | 108             |
| LCS 500-375239/4 | Lab Control Sample | 113  | 89              | 97               | 96              |
| MB 500-375239/6  | Method Blank       | 117  | 89              | 102              | 95              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
TOL = Toluene-d8 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                   |                 |
|------------------|--------------------|--|------------------|-------------------|-----------------|
|                  |                    | BFB<br>(71-120)                                | DBFM<br>(70-120) | 12DCE<br>(71-127) | TOL<br>(75-120) |
| 500-124510-12    | TB-1               | 82   | 103              | 120               | 96              |
| LCS 500-375238/4 | Lab Control Sample | 89   | 97               | 113               | 96              |
| MB 500-375238/6  | Method Blank       | 89   | 102              | 117               | 95              |

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

TestAmerica Chicago

# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID   | NBZ      | FBP      | TPH      |
|--------------------|--------------------|----------|----------|----------|
|                    |                    | (33-124) | (42-115) | (25-150) |
| 500-124510-1       | SB-2(5-6)          | 88       | 86       | 92       |
| 500-124510-2       | SB-3(4-5)          | 88       | 86       | 91       |
| 500-124510-3       | SB-4(4-5)          | 86       | 82       | 87       |
| 500-124510-3 MS    | SB-4(4-5)          | 85       | 82       | 93       |
| 500-124510-3 MSD   | SB-4(4-5)          | 80       | 75       | 89       |
| 500-124510-4       | SB-10(1-2)         | 77       | 77       | 84       |
| 500-124510-5       | SB-5(5-6)          | 86       | 81       | 89       |
| 500-124510-6       | SB-6(0.5-1.5)      | 77       | 80       | 82       |
| 500-124510-7       | SB-7(6-7)          | 89       | 85       | 89       |
| 500-124510-8       | SB-8(2-3)          | 81       | 81       | 89       |
| 500-124510-9       | SB-9(1-2)          | 80       | 81       | 86       |
| 500-124510-10      | SB-1(0-1)          | 82       | 85       | 89       |
| 500-124510-11      | FD-1               | 80       | 83       | 89       |
| LCS 500-374536/2-A | Lab Control Sample | 85       | 82       | 96       |
| MB 500-374536/1-A  | Method Blank       | 85       | 88       | 97       |

#### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14 (Surr)

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-374120/7**

**Matrix: Solid**

**Analysis Batch: 374120**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                    | MB Result | MB Qualifier | RL     | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|-----------|--------------|--------|-----|-------|---|----------|----------------|---------|
| Acetone                    | ND        |              | 0.020  |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Benzene                    | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Bromodichloromethane       | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Bromoform                  | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Bromomethane               | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Carbon disulfide           | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,1-Dichloroethane         | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Carbon tetrachloride       | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Chlorobenzene              | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,1-Dichloroethene         | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Chloroethane               | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,2-Dichloropropane        | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Chloroform                 | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Chloromethane              | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 2-Hexanone                 | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| cis-1,2-Dichloroethene     | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| cis-1,3-Dichloropropene    | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Dibromochloromethane       | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Ethylbenzene               | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Methyl Ethyl Ketone        | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| methyl isobutyl ketone     | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Methyl tert-butyl ether    | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Methylene Chloride         | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Styrene                    | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Tetrachloroethene          | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,1,1-Trichloroethane      | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Toluene                    | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,1,2-Trichloroethane      | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| trans-1,2-Dichloroethene   | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| trans-1,3-Dichloropropene  | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Trichloroethene            | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,2-Dichloroethane         | ND        |              | 0.0050 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Vinyl chloride             | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| 1,3-Dichloropropene, Total | ND        |              | 0.0020 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |
| Xylenes, Total             | ND        |              | 0.0040 |     | mg/Kg |   |          | 03/02/17 10:09 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 105          |              | 70 - 120 |          | 03/02/17 10:09 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 113          |              | 69 - 134 |          | 03/02/17 10:09 | 1       |
| Dibromofluoromethane         | 108          |              | 75 - 120 |          | 03/02/17 10:09 | 1       |
| Toluene-d8 (Surr)            | 104          |              | 75 - 123 |          | 03/02/17 10:09 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-374120/5**

**Matrix: Solid**

**Analysis Batch: 374120**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acetone                   | 0.0500      | 0.0480     |               | mg/Kg |   | 96   | 40 - 148     |
| Benzene                   | 0.0500      | 0.0462     |               | mg/Kg |   | 92   | 70 - 120     |
| Bromodichloromethane      | 0.0500      | 0.0545     |               | mg/Kg |   | 109  | 67 - 120     |
| Bromoform                 | 0.0500      | 0.0572     |               | mg/Kg |   | 114  | 50 - 129     |
| Bromomethane              | 0.0500      | 0.0640     |               | mg/Kg |   | 128  | 50 - 134     |
| Carbon disulfide          | 0.0500      | 0.0449     |               | mg/Kg |   | 90   | 67 - 133     |
| 1,1-Dichloroethane        | 0.0500      | 0.0506     |               | mg/Kg |   | 101  | 70 - 125     |
| Carbon tetrachloride      | 0.0500      | 0.0582     |               | mg/Kg |   | 116  | 65 - 123     |
| Chlorobenzene             | 0.0500      | 0.0487     |               | mg/Kg |   | 97   | 70 - 120     |
| 1,1-Dichloroethene        | 0.0500      | 0.0468     |               | mg/Kg |   | 94   | 70 - 122     |
| Chloroethane              | 0.0500      | 0.0592     |               | mg/Kg |   | 118  | 40 - 150     |
| 1,2-Dichloropropane       | 0.0500      | 0.0468     |               | mg/Kg |   | 94   | 70 - 126     |
| Chloroform                | 0.0500      | 0.0527     |               | mg/Kg |   | 105  | 70 - 120     |
| Chloromethane             | 0.0500      | 0.0469     |               | mg/Kg |   | 94   | 63 - 135     |
| 2-Hexanone                | 0.0500      | 0.0574     |               | mg/Kg |   | 115  | 51 - 139     |
| cis-1,2-Dichloroethene    | 0.0500      | 0.0475     |               | mg/Kg |   | 95   | 70 - 120     |
| cis-1,3-Dichloropropene   | 0.0500      | 0.0527     |               | mg/Kg |   | 105  | 70 - 120     |
| Dibromochloromethane      | 0.0500      | 0.0562     |               | mg/Kg |   | 112  | 68 - 120     |
| Ethylbenzene              | 0.0500      | 0.0481     |               | mg/Kg |   | 96   | 70 - 120     |
| Methyl Ethyl Ketone       | 0.0500      | 0.0506     |               | mg/Kg |   | 101  | 47 - 138     |
| 1,1,1,2-Tetrachloroethane | 0.0500      | 0.0506     |               | mg/Kg |   | 101  | 70 - 125     |
| methyl isobutyl ketone    | 0.0500      | 0.0604     |               | mg/Kg |   | 121  | 51 - 141     |
| Methyl tert-butyl ether   | 0.0500      | 0.0562     |               | mg/Kg |   | 112  | 70 - 121     |
| Methylene Chloride        | 0.0500      | 0.0434     |               | mg/Kg |   | 87   | 70 - 121     |
| Styrene                   | 0.0500      | 0.0505     |               | mg/Kg |   | 101  | 70 - 121     |
| Tetrachloroethene         | 0.0500      | 0.0492     |               | mg/Kg |   | 98   | 70 - 122     |
| 1,1,1-Trichloroethane     | 0.0500      | 0.0581     |               | mg/Kg |   | 116  | 70 - 120     |
| Toluene                   | 0.0500      | 0.0498     |               | mg/Kg |   | 100  | 70 - 121     |
| 1,1,2-Trichloroethane     | 0.0500      | 0.0505     |               | mg/Kg |   | 101  | 70 - 120     |
| trans-1,2-Dichloroethene  | 0.0500      | 0.0455     |               | mg/Kg |   | 91   | 70 - 120     |
| trans-1,3-Dichloropropene | 0.0500      | 0.0554     |               | mg/Kg |   | 111  | 70 - 121     |
| Trichloroethene           | 0.0500      | 0.0477     |               | mg/Kg |   | 95   | 70 - 124     |
| 1,2-Dichloroethane        | 0.0500      | 0.0591     |               | mg/Kg |   | 118  | 65 - 126     |
| Vinyl chloride            | 0.0500      | 0.0467     |               | mg/Kg |   | 93   | 64 - 125     |
| Xylenes, Total            | 0.100       | 0.105      |               | mg/Kg |   | 105  | 70 - 123     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr)  | 104           |               | 70 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 111           |               | 69 - 134 |
| Dibromofluoromethane         | 102           |               | 75 - 120 |
| Toluene-d8 (Surr)            | 105           |               | 75 - 123 |

**Lab Sample ID: LCSD 500-374120/6**

**Matrix: Solid**

**Analysis Batch: 374120**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Acetone | 0.0500      | 0.0492      |                | mg/Kg |   | 98   | 40 - 148     | 3   | 30        |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-374120/6**  
**Matrix: Solid**  
**Analysis Batch: 374120**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene                   | 0.0500      | 0.0459      |                | mg/Kg |   | 92   | 70 - 120     | 1   | 30        |
| Bromodichloromethane      | 0.0500      | 0.0530      |                | mg/Kg |   | 106  | 67 - 120     | 3   | 30        |
| Bromoform                 | 0.0500      | 0.0563      |                | mg/Kg |   | 113  | 50 - 129     | 2   | 30        |
| Bromomethane              | 0.0500      | 0.0630      |                | mg/Kg |   | 126  | 50 - 134     | 2   | 30        |
| Carbon disulfide          | 0.0500      | 0.0446      |                | mg/Kg |   | 89   | 67 - 133     | 1   | 30        |
| 1,1-Dichloroethane        | 0.0500      | 0.0497      |                | mg/Kg |   | 99   | 70 - 125     | 2   | 30        |
| Carbon tetrachloride      | 0.0500      | 0.0552      |                | mg/Kg |   | 110  | 65 - 123     | 5   | 30        |
| Chlorobenzene             | 0.0500      | 0.0482      |                | mg/Kg |   | 96   | 70 - 120     | 1   | 30        |
| 1,1-Dichloroethene        | 0.0500      | 0.0458      |                | mg/Kg |   | 92   | 70 - 122     | 2   | 30        |
| Chloroethane              | 0.0500      | 0.0573      |                | mg/Kg |   | 115  | 40 - 150     | 3   | 30        |
| 1,2-Dichloropropane       | 0.0500      | 0.0455      |                | mg/Kg |   | 91   | 70 - 126     | 3   | 30        |
| Chloroform                | 0.0500      | 0.0520      |                | mg/Kg |   | 104  | 70 - 120     | 1   | 30        |
| Chloromethane             | 0.0500      | 0.0466      |                | mg/Kg |   | 93   | 63 - 135     | 1   | 30        |
| 2-Hexanone                | 0.0500      | 0.0586      |                | mg/Kg |   | 117  | 51 - 139     | 2   | 30        |
| cis-1,2-Dichloroethene    | 0.0500      | 0.0474      |                | mg/Kg |   | 95   | 70 - 120     | 0   | 30        |
| cis-1,3-Dichloropropene   | 0.0500      | 0.0531      |                | mg/Kg |   | 106  | 70 - 120     | 1   | 30        |
| Dibromochloromethane      | 0.0500      | 0.0548      |                | mg/Kg |   | 110  | 68 - 120     | 3   | 30        |
| Ethylbenzene              | 0.0500      | 0.0476      |                | mg/Kg |   | 95   | 70 - 120     | 1   | 30        |
| Methyl Ethyl Ketone       | 0.0500      | 0.0507      |                | mg/Kg |   | 101  | 47 - 138     | 0   | 30        |
| 1,1,2,2-Tetrachloroethane | 0.0500      | 0.0510      |                | mg/Kg |   | 102  | 70 - 125     | 1   | 30        |
| methyl isobutyl ketone    | 0.0500      | 0.0634      |                | mg/Kg |   | 127  | 51 - 141     | 5   | 30        |
| Methyl tert-butyl ether   | 0.0500      | 0.0562      |                | mg/Kg |   | 112  | 70 - 121     | 0   | 30        |
| Methylene Chloride        | 0.0500      | 0.0442      |                | mg/Kg |   | 88   | 70 - 121     | 2   | 30        |
| Styrene                   | 0.0500      | 0.0498      |                | mg/Kg |   | 100  | 70 - 121     | 1   | 30        |
| Tetrachloroethene         | 0.0500      | 0.0470      |                | mg/Kg |   | 94   | 70 - 122     | 4   | 30        |
| 1,1,1-Trichloroethane     | 0.0500      | 0.0567      |                | mg/Kg |   | 113  | 70 - 120     | 3   | 30        |
| Toluene                   | 0.0500      | 0.0482      |                | mg/Kg |   | 96   | 70 - 121     | 3   | 30        |
| 1,1,2-Trichloroethane     | 0.0500      | 0.0520      |                | mg/Kg |   | 104  | 70 - 120     | 3   | 30        |
| trans-1,2-Dichloroethene  | 0.0500      | 0.0460      |                | mg/Kg |   | 92   | 70 - 120     | 1   | 30        |
| trans-1,3-Dichloropropene | 0.0500      | 0.0574      |                | mg/Kg |   | 115  | 70 - 121     | 4   | 30        |
| Trichloroethene           | 0.0500      | 0.0455      |                | mg/Kg |   | 91   | 70 - 124     | 5   | 30        |
| 1,2-Dichloroethane        | 0.0500      | 0.0566      |                | mg/Kg |   | 113  | 65 - 126     | 4   | 30        |
| Vinyl chloride            | 0.0500      | 0.0457      |                | mg/Kg |   | 91   | 64 - 125     | 2   | 30        |
| Xylenes, Total            | 0.100       | 0.104       |                | mg/Kg |   | 104  | 70 - 123     | 2   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr)  | 102            |                | 70 - 120    |
| 1,2-Dichloroethane-d4 (Surr) | 110            |                | 69 - 134    |
| Dibromofluoromethane         | 104            |                | 75 - 120    |
| Toluene-d8 (Surr)            | 107            |                | 75 - 123    |

**Lab Sample ID: MB 500-375238/6**  
**Matrix: Water**  
**Analysis Batch: 375238**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------|----------------|---------|
| Acetone | ND        |              | 0.0050  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Benzene | ND        |              | 0.00050 |     | mg/L |   |          | 03/10/17 09:49 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-375238/6**  
**Matrix: Water**  
**Analysis Batch: 375238**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                    | MB Result | MB Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|-----------|--------------|---------|-----|------|---|----------|----------------|---------|
| Bromodichloromethane       | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Bromoform                  | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Bromomethane               | ND        |              | 0.0020  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Carbon disulfide           | ND        |              | 0.0020  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,1-Dichloroethane         | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Carbon tetrachloride       | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Chlorobenzene              | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,1-Dichloroethene         | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Chloroethane               | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloropropane        | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Chloroform                 | ND        |              | 0.0020  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Chloromethane              | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 2-Hexanone                 | ND        |              | 0.0050  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| cis-1,2-Dichloroethene     | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| cis-1,3-Dichloropropene    | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Dibromochloromethane       | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Ethylbenzene               | ND        |              | 0.00050 |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Methyl Ethyl Ketone        | ND        |              | 0.0050  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| methyl isobutyl ketone     | ND        |              | 0.0050  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Methyl tert-butyl ether    | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Methylene Chloride         | ND        |              | 0.0050  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Styrene                    | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Tetrachloroethene          | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,1,1-Trichloroethane      | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Toluene                    | ND        |              | 0.00050 |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,1,2-Trichloroethane      | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| trans-1,2-Dichloroethene   | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| trans-1,3-Dichloropropene  | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Trichloroethene            | ND        |              | 0.00050 |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloroethane         | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Vinyl chloride             | ND        |              | 0.00050 |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| 1,3-Dichloropropene, Total | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |
| Xylenes, Total             | ND        |              | 0.0010  |     | mg/L |   |          | 03/10/17 09:49 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 89           |              | 71 - 120 |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 117          |              | 71 - 127 |          | 03/10/17 09:49 | 1       |
| Dibromofluoromethane         | 102          |              | 70 - 120 |          | 03/10/17 09:49 | 1       |
| Toluene-d8 (Surr)            | 95           |              | 75 - 120 |          | 03/10/17 09:49 | 1       |

**Lab Sample ID: LCS 500-375238/4**  
**Matrix: Water**  
**Analysis Batch: 375238**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Acetone | 0.0500      | 0.0523     |               | mg/L |   | 105  | 37 - 141     |
| Benzene | 0.0500      | 0.0457     |               | mg/L |   | 91   | 70 - 125     |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-375238/4**  
**Matrix: Water**  
**Analysis Batch: 375238**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Bromodichloromethane      | 0.0500      | 0.0502     |               | mg/L |   | 100  | 70 - 125     |
| Bromoform                 | 0.0500      | 0.0594     |               | mg/L |   | 119  | 54 - 128     |
| Bromomethane              | 0.0500      | 0.0484     |               | mg/L |   | 97   | 40 - 150     |
| Carbon disulfide          | 0.0500      | 0.0459     |               | mg/L |   | 92   | 68 - 125     |
| 1,1-Dichloroethane        | 0.0500      | 0.0518     |               | mg/L |   | 104  | 70 - 125     |
| Carbon tetrachloride      | 0.0500      | 0.0536     |               | mg/L |   | 107  | 70 - 125     |
| Chlorobenzene             | 0.0500      | 0.0478     |               | mg/L |   | 96   | 70 - 125     |
| 1,1-Dichloroethene        | 0.0500      | 0.0472     |               | mg/L |   | 94   | 70 - 125     |
| Chloroethane              | 0.0500      | 0.0425     |               | mg/L |   | 85   | 60 - 139     |
| 1,2-Dichloropropane       | 0.0500      | 0.0530     |               | mg/L |   | 106  | 70 - 125     |
| Chloroform                | 0.0500      | 0.0490     |               | mg/L |   | 98   | 70 - 125     |
| Chloromethane             | 0.0500      | 0.0336     |               | mg/L |   | 67   | 60 - 140     |
| 2-Hexanone                | 0.0500      | 0.0489     |               | mg/L |   | 98   | 49 - 139     |
| cis-1,2-Dichloroethene    | 0.0500      | 0.0474     |               | mg/L |   | 95   | 70 - 125     |
| cis-1,3-Dichloropropene   | 0.0500      | 0.0483     |               | mg/L |   | 97   | 70 - 125     |
| Dibromochloromethane      | 0.0500      | 0.0512     |               | mg/L |   | 102  | 66 - 125     |
| Ethylbenzene              | 0.0500      | 0.0478     |               | mg/L |   | 96   | 70 - 125     |
| Methyl Ethyl Ketone       | 0.0500      | 0.0544     |               | mg/L |   | 109  | 52 - 142     |
| 1,1,2,2-Tetrachloroethane | 0.0500      | 0.0447     |               | mg/L |   | 89   | 68 - 125     |
| methyl isobutyl ketone    | 0.0500      | 0.0484     |               | mg/L |   | 97   | 47 - 140     |
| Methyl tert-butyl ether   | 0.0500      | 0.0472     |               | mg/L |   | 94   | 67 - 125     |
| Methylene Chloride        | 0.0500      | 0.0445     |               | mg/L |   | 89   | 68 - 125     |
| Styrene                   | 0.0500      | 0.0490     |               | mg/L |   | 98   | 70 - 125     |
| Tetrachloroethene         | 0.0500      | 0.0542     |               | mg/L |   | 108  | 70 - 125     |
| 1,1,1-Trichloroethane     | 0.0500      | 0.0526     |               | mg/L |   | 105  | 70 - 125     |
| Toluene                   | 0.0500      | 0.0465     |               | mg/L |   | 93   | 70 - 125     |
| 1,1,2-Trichloroethane     | 0.0500      | 0.0480     |               | mg/L |   | 96   | 70 - 125     |
| trans-1,2-Dichloroethene  | 0.0500      | 0.0469     |               | mg/L |   | 94   | 70 - 125     |
| trans-1,3-Dichloropropene | 0.0500      | 0.0506     |               | mg/L |   | 101  | 70 - 125     |
| Trichloroethene           | 0.0500      | 0.0502     |               | mg/L |   | 100  | 70 - 125     |
| 1,2-Dichloroethane        | 0.0500      | 0.0553     |               | mg/L |   | 111  | 70 - 125     |
| Vinyl chloride            | 0.0500      | 0.0438     |               | mg/L |   | 88   | 70 - 126     |
| Xylenes, Total            | 0.100       | 0.0957     |               | mg/L |   | 96   | 70 - 125     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr)  | 89            |               | 71 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 113           |               | 71 - 127 |
| Dibromofluoromethane         | 97            |               | 70 - 120 |
| Toluene-d8 (Surr)            | 96            |               | 75 - 120 |

**Lab Sample ID: MB 500-375239/6**  
**Matrix: Solid**  
**Analysis Batch: 375239**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte              | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|---------|-----|-------|---|----------|----------------|---------|
| Acetone              | ND        |              | 0.0050  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Benzene              | ND        |              | 0.00025 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Bromodichloromethane | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-375239/6**

**Matrix: Solid**

**Analysis Batch: 375239**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                    | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------|-----------|--------------|---------|-----|-------|---|----------|----------------|---------|
| Bromoform                  | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Bromomethane               | ND        |              | 0.0020  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Carbon disulfide           | ND        |              | 0.0020  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,1-Dichloroethane         | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Carbon tetrachloride       | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Chlorobenzene              | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,1-Dichloroethene         | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Chloroethane               | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloropropane        | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Chloroform                 | ND        |              | 0.0020  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Chloromethane              | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 2-Hexanone                 | ND        |              | 0.0050  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| cis-1,2-Dichloroethene     | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| cis-1,3-Dichloropropene    | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Dibromochloromethane       | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Ethylbenzene               | ND        |              | 0.00025 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Methyl Ethyl Ketone        | ND        |              | 0.0050  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,1,2,2-Tetrachloroethane  | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| methyl isobutyl ketone     | ND        |              | 0.0050  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Methyl tert-butyl ether    | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Methylene Chloride         | ND        |              | 0.0050  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Styrene                    | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Tetrachloroethene          | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,1,1-Trichloroethane      | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Toluene                    | ND        |              | 0.00025 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,1,2-Trichloroethane      | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| trans-1,2-Dichloroethene   | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| trans-1,3-Dichloropropene  | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Trichloroethene            | ND        |              | 0.00050 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloroethane         | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Vinyl chloride             | ND        |              | 0.00050 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| 1,3-Dichloropropene, Total | ND        |              | 0.0010  |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |
| Xylenes, Total             | ND        |              | 0.00050 |     | mg/Kg |   |          | 03/10/17 09:49 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 89           |              | 71 - 120 |          | 03/10/17 09:49 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 117          |              | 71 - 127 |          | 03/10/17 09:49 | 1       |
| Dibromofluoromethane         | 102          |              | 70 - 120 |          | 03/10/17 09:49 | 1       |
| Toluene-d8 (Surr)            | 95           |              | 75 - 120 |          | 03/10/17 09:49 | 1       |

**Lab Sample ID: LCS 500-375239/4**

**Matrix: Solid**

**Analysis Batch: 375239**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acetone              | 0.0500      | 0.0523     |               | mg/Kg |   | 105  | 37 - 141     |
| Benzene              | 0.0500      | 0.0457     |               | mg/Kg |   | 91   | 70 - 125     |
| Bromodichloromethane | 0.0500      | 0.0502     |               | mg/Kg |   | 100  | 70 - 125     |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-375239/4**  
**Matrix: Solid**  
**Analysis Batch: 375239**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Bromoform                 | 0.0500      | 0.0594     |               | mg/Kg |   | 119  | 54 - 128     |
| Bromomethane              | 0.0500      | 0.0484     |               | mg/Kg |   | 97   | 40 - 150     |
| Carbon disulfide          | 0.0500      | 0.0459     |               | mg/Kg |   | 92   | 68 - 125     |
| 1,1-Dichloroethane        | 0.0500      | 0.0518     |               | mg/Kg |   | 104  | 70 - 125     |
| Carbon tetrachloride      | 0.0500      | 0.0536     |               | mg/Kg |   | 107  | 70 - 125     |
| Chlorobenzene             | 0.0500      | 0.0478     |               | mg/Kg |   | 96   | 70 - 125     |
| 1,1-Dichloroethene        | 0.0500      | 0.0472     |               | mg/Kg |   | 94   | 70 - 125     |
| Chloroethane              | 0.0500      | 0.0425     |               | mg/Kg |   | 85   | 60 - 139     |
| 1,2-Dichloropropane       | 0.0500      | 0.0530     |               | mg/Kg |   | 106  | 70 - 125     |
| Chloroform                | 0.0500      | 0.0490     |               | mg/Kg |   | 98   | 70 - 125     |
| Chloromethane             | 0.0500      | 0.0336     |               | mg/Kg |   | 67   | 60 - 140     |
| 2-Hexanone                | 0.0500      | 0.0489     |               | mg/Kg |   | 98   | 49 - 139     |
| cis-1,2-Dichloroethene    | 0.0500      | 0.0474     |               | mg/Kg |   | 95   | 70 - 125     |
| cis-1,3-Dichloropropene   | 0.0500      | 0.0483     |               | mg/Kg |   | 97   | 70 - 125     |
| Dibromochloromethane      | 0.0500      | 0.0512     |               | mg/Kg |   | 102  | 66 - 125     |
| Ethylbenzene              | 0.0500      | 0.0478     |               | mg/Kg |   | 96   | 70 - 125     |
| Methyl Ethyl Ketone       | 0.0500      | 0.0544     |               | mg/Kg |   | 109  | 52 - 142     |
| 1,1,2,2-Tetrachloroethane | 0.0500      | 0.0447     |               | mg/Kg |   | 89   | 68 - 125     |
| methyl isobutyl ketone    | 0.0500      | 0.0484     |               | mg/Kg |   | 97   | 47 - 140     |
| Methyl tert-butyl ether   | 0.0500      | 0.0472     |               | mg/Kg |   | 94   | 67 - 125     |
| Methylene Chloride        | 0.0500      | 0.0445     |               | mg/Kg |   | 89   | 68 - 125     |
| Styrene                   | 0.0500      | 0.0490     |               | mg/Kg |   | 98   | 70 - 125     |
| Tetrachloroethene         | 0.0500      | 0.0542     |               | mg/Kg |   | 108  | 70 - 125     |
| 1,1,1-Trichloroethane     | 0.0500      | 0.0526     |               | mg/Kg |   | 105  | 70 - 125     |
| Toluene                   | 0.0500      | 0.0465     |               | mg/Kg |   | 93   | 70 - 125     |
| 1,1,2-Trichloroethane     | 0.0500      | 0.0480     |               | mg/Kg |   | 96   | 70 - 125     |
| trans-1,2-Dichloroethene  | 0.0500      | 0.0469     |               | mg/Kg |   | 94   | 70 - 125     |
| trans-1,3-Dichloropropene | 0.0500      | 0.0506     |               | mg/Kg |   | 101  | 70 - 125     |
| Trichloroethene           | 0.0500      | 0.0502     |               | mg/Kg |   | 100  | 70 - 125     |
| 1,2-Dichloroethane        | 0.0500      | 0.0553     |               | mg/Kg |   | 111  | 70 - 125     |
| Vinyl chloride            | 0.0500      | 0.0438     |               | mg/Kg |   | 88   | 70 - 126     |
| Xylenes, Total            | 0.100       | 0.0957     |               | mg/Kg |   | 96   | 70 - 125     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr)  | 89            |               | 71 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 113           |               | 71 - 127 |
| Dibromofluoromethane         | 97            |               | 70 - 120 |
| Toluene-d8 (Surr)            | 96            |               | 75 - 120 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-374536/1-A**  
**Matrix: Solid**  
**Analysis Batch: 374596**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 374536**

| Analyte        | MB Result | MB Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene   | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Acenaphthylene | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-374536/1-A**  
**Matrix: Solid**  
**Analysis Batch: 374596**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 374536**

| Analyte                | MB Result | MB Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-------|-----|-------|---|----------------|----------------|---------|
| Anthracene             | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Benzo[a]anthracene     | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Benzo[a]pyrene         | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Benzo[b]fluoranthene   | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Benzo[g,h,i]perylene   | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Benzo[k]fluoranthene   | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Chrysene               | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Dibenz(a,h)anthracene  | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Fluoranthene           | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Indeno[1,2,3-cd]pyrene | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Naphthalene            | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Phenanthrene           | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Pyrene                 | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Fluorene               | ND        |              | 0.033 |     | mg/Kg |   | 03/06/17 08:01 | 03/06/17 16:05 | 1       |

| Surrogate              | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| Nitrobenzene-d5 (Surr) | 85           |              | 33 - 124 | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| 2-Fluorobiphenyl       | 88           |              | 42 - 115 | 03/06/17 08:01 | 03/06/17 16:05 | 1       |
| Terphenyl-d14 (Surr)   | 97           |              | 25 - 150 | 03/06/17 08:01 | 03/06/17 16:05 | 1       |

**Lab Sample ID: LCS 500-374536/2-A**  
**Matrix: Solid**  
**Analysis Batch: 374596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 374536**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|-------|---|------|----------|
| Acenaphthene           | 1.33        | 1.13       |               | mg/Kg |   | 84   | 52 - 113 |
| Acenaphthylene         | 1.33        | 1.21       |               | mg/Kg |   | 91   | 57 - 116 |
| Anthracene             | 1.33        | 1.13       |               | mg/Kg |   | 85   | 57 - 118 |
| Benzo[a]anthracene     | 1.33        | 1.25       |               | mg/Kg |   | 94   | 63 - 115 |
| Benzo[a]pyrene         | 1.33        | 1.16       |               | mg/Kg |   | 87   | 64 - 122 |
| Benzo[b]fluoranthene   | 1.33        | 1.14       |               | mg/Kg |   | 86   | 61 - 123 |
| Benzo[g,h,i]perylene   | 1.33        | 1.18       |               | mg/Kg |   | 89   | 55 - 134 |
| Benzo[k]fluoranthene   | 1.33        | 1.21       |               | mg/Kg |   | 90   | 59 - 125 |
| Chrysene               | 1.33        | 1.19       |               | mg/Kg |   | 89   | 63 - 118 |
| Dibenz(a,h)anthracene  | 1.33        | 1.20       |               | mg/Kg |   | 90   | 61 - 134 |
| Fluoranthene           | 1.33        | 1.16       |               | mg/Kg |   | 87   | 61 - 124 |
| Indeno[1,2,3-cd]pyrene | 1.33        | 1.19       |               | mg/Kg |   | 89   | 50 - 149 |
| Naphthalene            | 1.33        | 1.17       |               | mg/Kg |   | 88   | 58 - 116 |
| Phenanthrene           | 1.33        | 1.12       |               | mg/Kg |   | 84   | 58 - 125 |
| Pyrene                 | 1.33        | 1.21       |               | mg/Kg |   | 91   | 60 - 115 |
| Fluorene               | 1.33        | 1.19       |               | mg/Kg |   | 89   | 56 - 115 |

| Surrogate              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------|---------------|---------------|----------|
| Nitrobenzene-d5 (Surr) | 85            |               | 33 - 124 |
| 2-Fluorobiphenyl       | 82            |               | 42 - 115 |
| Terphenyl-d14 (Surr)   | 96            |               | 25 - 150 |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-124510-3 MS**

**Matrix: Solid**

**Analysis Batch: 374679**

**Client Sample ID: SB-4(4-5)**

**Prep Type: Total/NA**

**Prep Batch: 374536**

| Analyte                | Sample | Sample    | Spike | MS     | MS        | Unit  | D | %Rec | Limits   |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
|                        | Result | Qualifier | Added | Result | Qualifier |       |   |      |          |
| Acenaphthene           | ND     |           | 1.47  | 1.24   |           | mg/Kg | ☼ | 84   | 52 - 113 |
| Acenaphthylene         | ND     |           | 1.47  | 1.37   |           | mg/Kg | ☼ | 93   | 57 - 116 |
| Anthracene             | ND     |           | 1.47  | 1.30   |           | mg/Kg | ☼ | 88   | 57 - 118 |
| Benzo[a]anthracene     | ND     |           | 1.47  | 1.30   |           | mg/Kg | ☼ | 88   | 63 - 115 |
| Benzo[a]pyrene         | ND     |           | 1.47  | 1.39   |           | mg/Kg | ☼ | 95   | 64 - 122 |
| Benzo[b]fluoranthene   | ND     |           | 1.47  | 1.59   |           | mg/Kg | ☼ | 108  | 61 - 123 |
| Benzo[g,h,i]perylene   | ND     |           | 1.47  | 1.53   |           | mg/Kg | ☼ | 104  | 55 - 134 |
| Benzo[k]fluoranthene   | ND     |           | 1.47  | 1.47   |           | mg/Kg | ☼ | 100  | 59 - 125 |
| Chrysene               | ND     |           | 1.47  | 1.32   |           | mg/Kg | ☼ | 89   | 63 - 118 |
| Dibenz(a,h)anthracene  | ND     |           | 1.47  | 1.46   |           | mg/Kg | ☼ | 99   | 61 - 134 |
| Fluoranthene           | ND     |           | 1.47  | 1.26   |           | mg/Kg | ☼ | 86   | 61 - 124 |
| Indeno[1,2,3-cd]pyrene | ND     |           | 1.47  | 1.46   |           | mg/Kg | ☼ | 99   | 50 - 149 |
| Naphthalene            | ND     |           | 1.47  | 1.28   |           | mg/Kg | ☼ | 87   | 58 - 116 |
| Phenanthrene           | ND     |           | 1.47  | 1.28   |           | mg/Kg | ☼ | 87   | 58 - 125 |
| Pyrene                 | ND     |           | 1.47  | 1.40   |           | mg/Kg | ☼ | 95   | 60 - 115 |
| Fluorene               | ND     |           | 1.47  | 1.31   |           | mg/Kg | ☼ | 89   | 56 - 115 |

| Surrogate              | MS        | MS        | Limits   |
|------------------------|-----------|-----------|----------|
|                        | %Recovery | Qualifier |          |
| Nitrobenzene-d5 (Surr) | 85        |           | 33 - 124 |
| 2-Fluorobiphenyl       | 82        |           | 42 - 115 |
| Terphenyl-d14 (Surr)   | 93        |           | 25 - 150 |

**Lab Sample ID: 500-124510-3 MSD**

**Matrix: Solid**

**Analysis Batch: 374679**

**Client Sample ID: SB-4(4-5)**

**Prep Type: Total/NA**

**Prep Batch: 374536**

| Analyte                | Sample | Sample    | Spike | MSD    | MSD       | Unit  | D | %Rec | Limits   | RPD | Limit |
|------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
|                        | Result | Qualifier | Added | Result | Qualifier |       |   |      |          |     |       |
| Acenaphthene           | ND     |           | 1.44  | 1.09   |           | mg/Kg | ☼ | 76   | 52 - 113 | 12  | 30    |
| Acenaphthylene         | ND     |           | 1.44  | 1.22   |           | mg/Kg | ☼ | 85   | 57 - 116 | 11  | 30    |
| Anthracene             | ND     |           | 1.44  | 1.16   |           | mg/Kg | ☼ | 81   | 57 - 118 | 11  | 30    |
| Benzo[a]anthracene     | ND     |           | 1.44  | 1.17   |           | mg/Kg | ☼ | 81   | 63 - 115 | 10  | 30    |
| Benzo[a]pyrene         | ND     |           | 1.44  | 1.28   |           | mg/Kg | ☼ | 89   | 64 - 122 | 9   | 30    |
| Benzo[b]fluoranthene   | ND     |           | 1.44  | 1.30   |           | mg/Kg | ☼ | 91   | 61 - 123 | 20  | 30    |
| Benzo[g,h,i]perylene   | ND     |           | 1.44  | 1.31   |           | mg/Kg | ☼ | 91   | 55 - 134 | 15  | 30    |
| Benzo[k]fluoranthene   | ND     |           | 1.44  | 1.32   |           | mg/Kg | ☼ | 92   | 59 - 125 | 11  | 30    |
| Chrysene               | ND     |           | 1.44  | 1.18   |           | mg/Kg | ☼ | 82   | 63 - 118 | 11  | 30    |
| Dibenz(a,h)anthracene  | ND     |           | 1.44  | 1.29   |           | mg/Kg | ☼ | 90   | 61 - 134 | 12  | 30    |
| Fluoranthene           | ND     |           | 1.44  | 1.13   |           | mg/Kg | ☼ | 79   | 61 - 124 | 11  | 30    |
| Indeno[1,2,3-cd]pyrene | ND     |           | 1.44  | 1.29   |           | mg/Kg | ☼ | 90   | 50 - 149 | 12  | 30    |
| Naphthalene            | ND     |           | 1.44  | 1.19   |           | mg/Kg | ☼ | 83   | 58 - 116 | 7   | 30    |
| Phenanthrene           | ND     |           | 1.44  | 1.15   |           | mg/Kg | ☼ | 80   | 58 - 125 | 10  | 30    |
| Pyrene                 | ND     |           | 1.44  | 1.31   |           | mg/Kg | ☼ | 91   | 60 - 115 | 7   | 30    |
| Fluorene               | ND     |           | 1.44  | 1.17   |           | mg/Kg | ☼ | 82   | 56 - 115 | 11  | 30    |

| Surrogate              | MSD       | MSD       | Limits   |
|------------------------|-----------|-----------|----------|
|                        | %Recovery | Qualifier |          |
| Nitrobenzene-d5 (Surr) | 80        |           | 33 - 124 |
| 2-Fluorobiphenyl       | 75        |           | 42 - 115 |

TestAmerica Chicago

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-124510-3 MSD

Matrix: Solid

Analysis Batch: 374679

Client Sample ID: SB-4(4-5)

Prep Type: Total/NA

Prep Batch: 374536

| <i>Surrogate</i>            | <i>MSD</i><br><i>%Recovery</i> | <i>MSD</i><br><i>Qualifier</i> | <i>Limits</i> |
|-----------------------------|--------------------------------|--------------------------------|---------------|
| <i>Terphenyl-d14 (Surr)</i> | 89                             |                                | 25 - 150      |

- 1
- 2
- 3
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- 12
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- 14
- 15

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-2(5-6)**

**Date Collected: 02/28/17 13:55**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-1**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-2(5-6)**

**Date Collected: 02/28/17 13:55**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-1**

**Matrix: Solid**

**Percent Solids: 89.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 14:23       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 11:17       | AJD     | TAL CHI |

**Client Sample ID: SB-3(4-5)**

**Date Collected: 02/28/17 14:35**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-2**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-3(4-5)**

**Date Collected: 02/28/17 14:35**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-2**

**Matrix: Solid**

**Percent Solids: 93.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 14:49       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 11:45       | AJD     | TAL CHI |

**Client Sample ID: SB-4(4-5)**

**Date Collected: 03/01/17 08:35**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-3**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-4(4-5)**

**Date Collected: 03/01/17 08:35**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-3**

**Matrix: Solid**

**Percent Solids: 88.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374098       | 03/01/17 08:35       | WRE     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-4(4-5)**

**Date Collected: 03/01/17 08:35**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-3**

**Matrix: Solid**

**Percent Solids: 88.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 50              | 375239       | 03/10/17 15:14       | TCT     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 12:14       | AJD     | TAL CHI |

**Client Sample ID: SB-10(1-2)**

**Date Collected: 03/01/17 09:05**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-4**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-10(1-2)**

**Date Collected: 03/01/17 09:05**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-4**

**Matrix: Solid**

**Percent Solids: 83.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 15:40       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 12:42       | AJD     | TAL CHI |

**Client Sample ID: SB-5(5-6)**

**Date Collected: 03/01/17 09:45**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-5**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-5(5-6)**

**Date Collected: 03/01/17 09:45**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-5**

**Matrix: Solid**

**Percent Solids: 86.2**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 16:05       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 13:11       | AJD     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-6(0.5-1.5)**

**Date Collected: 03/01/17 10:20**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-6**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-6(0.5-1.5)**

**Date Collected: 03/01/17 10:20**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-6**

**Matrix: Solid**

**Percent Solids: 83.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 16:31       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 13:39       | AJD     | TAL CHI |

**Client Sample ID: SB-7(6-7)**

**Date Collected: 03/01/17 11:10**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-7**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-7(6-7)**

**Date Collected: 03/01/17 11:10**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-7**

**Matrix: Solid**

**Percent Solids: 86.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 16:56       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 14:07       | AJD     | TAL CHI |

**Client Sample ID: SB-8(2-3)**

**Date Collected: 03/01/17 11:45**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-8**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-8(2-3)**

**Date Collected: 03/01/17 11:45**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-8**

**Matrix: Solid**

**Percent Solids: 79.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: SB-8(2-3)**

**Date Collected: 03/01/17 11:45**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-8**

**Matrix: Solid**

**Percent Solids: 79.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 17:22       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 14:36       | AJD     | TAL CHI |

**Client Sample ID: SB-9(1-2)**

**Date Collected: 03/01/17 12:15**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-9**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-9(1-2)**

**Date Collected: 03/01/17 12:15**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-9**

**Matrix: Solid**

**Percent Solids: 83.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 17:47       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 15:05       | AJD     | TAL CHI |

**Client Sample ID: SB-1(0-1)**

**Date Collected: 03/01/17 13:00**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-10**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: SB-1(0-1)**

**Date Collected: 03/01/17 13:00**

**Date Received: 03/01/17 15:20**

**Lab Sample ID: 500-124510-10**

**Matrix: Solid**

**Percent Solids: 83.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 374107       | 03/01/17 17:45       | WRE     | TAL CHI |
| Total/NA  | Analysis   | 8260B        |     | 1               | 374120       | 03/02/17 18:13       | BDW     | TAL CHI |
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 15:33       | AJD     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

**Client Sample ID: FD-1**

**Lab Sample ID: 500-124510-11**

**Date Collected: 03/01/17 12:20**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture     |     | 1               | 374165       | 03/02/17 10:14       | LWN     | TAL CHI |

**Client Sample ID: FD-1**

**Lab Sample ID: 500-124510-11**

**Date Collected: 03/01/17 12:20**

**Matrix: Solid**

**Date Received: 03/01/17 15:20**

**Percent Solids: 83.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3541         |     |                 | 374536       | 03/06/17 08:01       | DAK     | TAL CHI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 374679       | 03/07/17 16:02       | AJD     | TAL CHI |

**Client Sample ID: TB-1**

**Lab Sample ID: 500-124510-12**

**Date Collected: 03/01/17 00:00**

**Matrix: Water**

**Date Received: 03/01/17 15:20**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 375238       | 03/10/17 14:44       | TCT     | TAL CHI |

#### Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevy/Duby

TestAmerica Job ID: 500-124510-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois  | NELAP   | 5          | 100201           | 04-30-17 *      |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method     | Prep Method | Matrix | Analyte                    |
|---------------------|-------------|--------|----------------------------|
| 8260B               |             | Water  | 1,3-Dichloropropene, Total |
| 8260B               | 5035        | Solid  | 1,3-Dichloropropene, Total |
| Moisture            |             | Solid  | Percent Moisture           |
| <del>Moisture</del> |             | Solid  | Percent Solids             |

\* Certification renewal pending - certification considered valid.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional) CHRIS KOCKA Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_ Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: CHRISTOPHER.KOCKA@STANTEC.COM Ref/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-124510  
 Chain of Custody Number: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Temperature °C of Cooler: 3.4-73.1

| Client                 |        | Client Project # |         | Preservative |                 | Parameter |      | Matrix          |     | Preservative Key |          |
|------------------------|--------|------------------|---------|--------------|-----------------|-----------|------|-----------------|-----|------------------|----------|
| STANTEC                |        | 182U09844        |         |              |                 |           |      |                 |     |                  |          |
| Project Name           |        | Lab Project #    |         | Date         |                 | Time      |      | # of Containers |     | Comments         |          |
| CHEW/DUBY              |        |                  |         |              |                 |           |      |                 |     |                  |          |
| Project Location/State |        | Lab PM           |         | Date         |                 | Time      |      | # of Containers |     | Comments         |          |
| KANIKALKEE             |        |                  |         |              |                 |           |      |                 |     |                  |          |
| Sampler                |        | Lab PM           |         | Date         |                 | Time      |      | # of Containers |     | Comments         |          |
| JSTEPINA               |        |                  |         |              |                 |           |      |                 |     |                  |          |
| Lab ID                 | MS/MSD | Sample ID        | Date    | Time         | # of Containers | Matrix    | BTEX | VOCS            | PAH | PCBS             | Comments |
| 1                      |        | SB-2(5-6)        | 2/28/17 | 1355         |                 |           | X    |                 | X   |                  |          |
| 2                      |        | SB-3(4-5)        | 2/28/17 | 1435         |                 |           |      | X               | X   |                  |          |
| 3                      |        | SB-4(4-5)        | 3/1/17  | 0835         |                 |           |      | X               | X   | X                |          |
| 4                      |        | SB-10(1-2)       | 3/1/17  | 0905         |                 |           |      | X               | X   |                  |          |
| 5                      |        | SB-5(5-6)        | 3/1/17  | 0945         |                 |           |      | X               | X   |                  |          |
| 6                      |        | SB-6(65-1.5)     | 3/1/17  | 1020         |                 |           |      | X               | X   |                  |          |
| 7                      |        | SB-7(4-7)        | 3/1/17  | 1110         |                 |           |      | X               | X   |                  |          |
| 8                      |        | SB-8(2-3)        | 3/1/17  | 1145         |                 |           |      | X               | X   |                  |          |
| 9                      |        | SB-9(1-2)        | 3/1/17  | 1215         |                 |           |      | X               | X   |                  |          |
| 10                     |        | SB-1(0-1)        | 3/1/17  | 1300         |                 |           | X    |                 | X   |                  |          |

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days) STANDARD TAT  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Due Date \_\_\_\_\_  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

|  |   |                          |
|--|---|--------------------------|
| Relinquished By: <u>[Signature]</u> Company: STANTEC Date: 3/1/17 Time: 1520 | Received By: <u>Ariel Samoly</u> Company: TACHT Date: 03/01/17 Time: 1520 | Lab Courier: _____       |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____                | Received By: _____ Company: _____ Date: _____ Time: _____                 | Shipped: _____           |
| Relinquished By: _____ Company: _____ Date: _____ Time: _____                | Received By: _____ Company: _____ Date: _____ Time: _____                 | Hand Delivered: <u>X</u> |

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments  
GROUND WATER NOT SAMPLED  
VOCS LEFT EMPTY / UNUSED  
ONLY RUN PCBS IF PAHS ARE DETECTED

Lab Comments:



500-124510 COC

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-124510

Chain of Custody Number: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: 3.473.1

| Client  |        | Client Project # |          | Preservative |                 | Parameter |        | Matrix |        | Preservative Key  |
|---|--------|------------------|----------|--------------|-----------------|-----------|--------|--------|--------|---|
| Project Name  |        | Lab Project #    |          | Parameter    |                 | Matrix    |        | Matrix |        |   |
| Project Location/State  |        | Lab Project #    |          | Parameter    |                 | Matrix    |        | Matrix |        | Comments  |
| Sampler   |        | Lab PM           |          | Parameter    |                 | Matrix    |        | Matrix |        |   |
| Lab ID  | MS/MSD | Sample ID        | Sampling |              | # of Containers | Matrix    | Matrix | Matrix | Matrix | Comments  |
|   |        |                  | Date     | Time         |                 |           |        |        |        |   |
| 11  |        | FD-1             | 3/11/17  | 1220         |                 |           | X      |        |        | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |
| 12  |        | TB-1             |          |              |                 |           | X      |        |        |   |
| <del>                         (A large diagonal line is drawn across the remaining rows of the table, indicating they are unused or void.)                     </del> |        |                  |          |              |                 |           |        |        |        |   |

### Turnaround Time Required (Business Days)

1 Day
  2 Days
  5 Days
  7 Days
  10 Days
  15 Days
  Other

### Sample Disposal

Return to Client
  Disposal by Lab
  Archive for \_\_\_\_\_ Months
 (A fee may be assessed if samples are retained longer than 1 month)

|                    |         |         |      |                    |         |          |      |
|--------------------|---------|---------|------|--------------------|---------|----------|------|
| Relinquished By    | Company | Date    | Time | Received By        | Company | Date     | Time |
| <i>[Signature]</i> | Stantec | 3/11/17 | 1520 | <i>[Signature]</i> | TRAC    | 03/10/17 | 1520 |
| Relinquished By    | Company | Date    | Time | Received By        | Company | Date     | Time |
|                    |         |         |      |                    |         |          |      |
| Relinquished By    | Company | Date    | Time | Received By        | Company | Date     | Time |
|                    |         |         |      |                    |         |          |      |

Lab Courier: \_\_\_\_\_  
 Shipped: \_\_\_\_\_  
 Hand Delivered:

**Matrix Key**

|                    |                     |
|--------------------|---------------------|
| WW - Wastewater    | SE - Sediment       |
| W - Water          | SO - Soil           |
| S - Soil           | L - Leachate        |
| SL - Sludge        | WI - Wipe           |
| MS - Miscellaneous | DW - Drinking Water |
| OL - Oil           | O - Other           |
| A - Air            |                     |

**Client Comments**

*\* ONLY RUN PCBs IF PAHs ARE DETECTED*

**Lab Comments:**

# Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-124510-1

**Login Number: 124510**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | True   |         |
| The cooler's custody seal, if present, is intact.   | True   |         |
| Sample custody seals, if present, are intact.   | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |         |
| Samples were received on ice.   | True   |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   | 3.1     |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.   | True   |         |
| Is the Field Sampler's name present on COC?   | True   |         |
| There are no discrepancies between the containers received and the COC.                             | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | N/A    |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |

